

Movement behaviour after birth demonstrates precocial abilities of African savannah elephant (*Loxodonta africana*) calves

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Supplementary material

Stan code for the Bayesian three-state hidden Markov model of log-transformed daily mean speed. See methods section for details.

```
data{
  int T;
  int K;
  real Speed[T];
  int aMinDayDiff;

  // priors
  vector[3] Speed_mean_prior;
  vector[3] Speed_sigma_prior;
}

transformed data {
  real log_unif;
  vector[3] alpha_prior_reordered;
  alpha_prior_reordered[1] = -Speed_mean_prior[1];
  alpha_prior_reordered[2] = -Speed_mean_prior[3];
  alpha_prior_reordered[3] = -Speed_mean_prior[2];
  log_unif = -log(T);
}

parameters{
  ordered[K] alpha;
  real<lower=0> sigma[K];
}

transformed parameters{
  matrix[T,K] lp;
  vector[K] alphaReordered;

  alphaReordered[1] = alpha[1];
  alphaReordered[2] = alpha[3];
  alphaReordered[3] = alpha[2];

  lp[1] = rep_row_vector(-log(K),K);

  for(t in 2:T){
    for(k in 1:K){
      if(Speed[t] == -99){
        lp[t,k] = lp[t-1,k];
      }else{
        if(k==1) // early (long)
          lp[t,k] = lp[t-1,k] + normal_lpdf(Speed[t] | -alphaReordered[k], sigma[k]);
        else if(k==2) // mid (short)
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        lp[t,k] = log_sum_exp(lp[t-1,1:2]) + normal_lpdf(Speed[t] | -
alphaReordered[k],sigma[k]);
    else // late (medium)
        lp[t,k] = log_sum_exp(lp[t-1,2:3]) + normal_lpdf(Speed[t] | -
alphaReordered[k],sigma[k]);
    }
}
}

model{
    target += log_sum_exp(lp[T]);
    alpha ~ normal(alpha_prior_reordered,0.5);
    sigma ~ normal(0,Speed_sigma_prior);
}

generated quantities{
    int path[T];
    int changePoint1 = T-1;
    int changePoint2 = T;
    vector[3] meanSpeed = -alphaReordered;

    {
matrix[T,K] mLogProb;
int mBestIndex[T-1,K];
real aLogProbTemp;
int aBestFinal;

for(t in 1:T){

    for(k in 1:K){
        if(Speed[t] == -99){
            mLogProb[t,k] = mLogProb[t-1,k];
            mBestIndex[t-1,k] = mBestIndex[t-2,k];
        } else{
            if(t==1){
                if(k==1)
                    mLogProb[t,k] = normal_lpdf(Speed[t] | -alphaReordered[k],sigma[k]);
                else
                    mLogProb[t,k] = negative_infinity();
            } else if(t==2){
                if(k==1){
                    mLogProb[t,k] = mLogProb[t-1,1] + normal_lpdf(Speed[t] | -alphaReordered[k],sigma[k]);
                    mBestIndex[t-1,k] = 1;
                }
                else if(k==2){
                    mLogProb[t,k] = mLogProb[t-1,1] + normal_lpdf(Speed[t] | -alphaReordered[k],sigma[k]);
                    mBestIndex[t-1,k] = 1;
                }
                else{
                    mLogProb[t,k] = negative_infinity();
                    mBestIndex[t-1,k] = 0;
                }
            } else if(t==3){
                if(k==1){
                    mLogProb[t,k] = mLogProb[t-1,1] + normal_lpdf(Speed[t] | -alphaReordered[k],sigma[k]);
                    mBestIndex[t-1,k] = 1;
                }
                else if(k==2){
                    mLogProb[t,k] = max(mLogProb[t-1,1:2]) + normal_lpdf(Speed[t] | -
alphaReordered[k],sigma[k]);
                    aLogProbTemp = negative_infinity();
                    for(i in 1:2){
                        if(mLogProb[t-1,i]>aLogProbTemp){
                            aLogProbTemp = mLogProb[t-1,i];
                            mBestIndex[t-1,k] = i;
                        }
                    }
                }
                else{
                    mLogProb[t,k] = mLogProb[t-1,2] + normal_lpdf(Speed[t] | -alphaReordered[k],sigma[k]);
                    mBestIndex[t-1,k] = 2;
                }
            } else{
                if(k==1){
                    mLogProb[t,k] = mLogProb[t-1,1] + normal_lpdf(Speed[t] | -alphaReordered[k],sigma[k]);
                    mBestIndex[t-1,k] = 1;
                }
            }
        }
    }
}
}

```

```

    }
    else if(k==2){
        mLogProb[t,k] = max(mLogProb[t-1,1:2]) + normal_lpdf(Speed[t]|-
alphaReordered[k],sigma[k]);
        aLogProbTemp = negative_infinity();
        for(i in 1:2){
            if(mLogProb[t-1,i]>aLogProbTemp){
                aLogProbTemp = mLogProb[t-1,i];
                mBestIndex[t-1,k] = i;
            }
        }
    }
    else{
        mLogProb[t,k] = max(mLogProb[t-1,2:3]) + normal_lpdf(Speed[t]|-
alphaReordered[k],sigma[k]);
        aLogProbTemp = negative_infinity();
        for(i in 2:3){
            if(mLogProb[t-1,i]>aLogProbTemp){
                aLogProbTemp = mLogProb[t-1,i];
                mBestIndex[t-1,k] = i;
            }
        }
    }
}
}
}

aLogProbTemp = negative_infinity();
for(k in 1:K){
    if(mLogProb[T,k]>aLogProbTemp){
        aLogProbTemp = mLogProb[T,k];
        aBestFinal = k;
    }
}

for(t in 1:T){
    int aIndex;
    aIndex = T - t + 1;
    if(aIndex == T){
        path[aIndex] = aBestFinal;
    }else if(aIndex==1){
        path[aIndex] = 1;
    }else{
        path[aIndex] = mBestIndex[aIndex,path[aIndex+1]];
    }
}

for(t in 2:T){
    if(path[t-1]==1){
        if(path[t]-path[t-1]>0)
            changePoint1 = t-1;
    }
    else{
        if(path[t]-path[t-1]>0)
            changePoint2 = t-1;
    }
}
changePoint1 = changePoint1 + aMinDayDiff - 1;
changePoint2 = changePoint2 + aMinDayDiff - 1;
}

```

Example model output for Flaubert (Figure 4e) for the Bayesian three-state hidden Markov model of log-transformed daily mean speed (km h⁻¹) for ± 30 days.

Inference for Stan model: threeStateFinal_daily_normaldistribution_missingdata_Down.
8 chains, each with iter=5000; warmup=2500; thin=1;
post-warmup draws per chain=2500, total post-warmup draws=20000.

	mean	se_mean	sd	2.50%	25%	50%	75%	97.50%	n_eff	Rhat
alpha[1]	0.58	0.00	0.08	0.42	0.53	0.58	0.64	0.74	10519	1.00
alpha[2]	0.86	0.00	0.08	0.71	0.81	0.86	0.91	1.01	10576	1.00
alpha[3]	1.27	0.00	0.15	0.98	1.17	1.26	1.35	1.57	12288	1.00
sigma[1]	0.40	0.00	0.06	0.30	0.36	0.39	0.43	0.53	15059	1.00
sigma[2]	0.34	0.00	0.11	0.17	0.26	0.32	0.39	0.61	8769	1.00
sigma[3]	0.36	0.00	0.06	0.27	0.32	0.35	0.39	0.49	8666	1.00
lp[1,1]	-1.10	0.00	0.00	-1.10	-1.10	-1.10	-1.10	-1.10	4	1.00
lp[1,2]	-1.10	0.00	0.00	-1.10	-1.10	-1.10	-1.10	-1.10	4	1.00
lp[1,3]	-1.10	0.00	0.00	-1.10	-1.10	-1.10	-1.10	-1.10	4	1.00
lp[2,1]	-1.30	0.00	0.16	-1.63	-1.40	-1.29	-1.18	-1.00	11385	1.00
lp[2,2]	-6.67	0.68	21.22	-16.35	-6.53	-4.30	-2.88	-1.61	971	1.01
lp[2,3]	-1.43	0.02	1.08	-2.20	-1.61	-1.36	-1.15	-0.84	2404	1.00
lp[3,1]	-1.82	0.00	0.14	-2.17	-1.90	-1.79	-1.72	-1.64	11587	1.00
lp[3,2]	-1.69	0.05	2.21	-3.28	-1.84	-1.46	-1.15	-0.72	1779	1.00
lp[3,3]	-1.24	0.01	0.49	-1.86	-1.40	-1.20	-1.05	-0.71	1967	1.00
lp[4,1]	-3.61	0.00	0.58	-5.01	-3.93	-3.50	-3.19	-2.80	14152	1.00
lp[4,2]	-0.87	0.02	1.12	-1.79	-1.01	-0.78	-0.59	-0.28	3337	1.00
lp[4,3]	-1.43	0.01	0.55	-2.12	-1.64	-1.41	-1.18	-0.75	5803	1.00
lp[5,1]	-4.69	0.01	0.93	-6.90	-5.20	-4.53	-4.01	-3.33	13898	1.00
lp[5,2]	-0.76	0.01	0.99	-2.38	-1.07	-0.65	-0.30	0.33	6049	1.00
lp[5,3]	-0.62	0.00	0.41	-1.42	-0.83	-0.59	-0.37	-0.01	9824	1.00
lp[6,1]	-6.86	0.01	1.58	-10.54	-7.77	-6.61	-5.70	-4.53	14350	1.00
lp[6,2]	-0.73	0.04	2.01	-2.77	-1.13	-0.58	-0.08	0.70	2252	1.00
lp[6,3]	-1.03	0.01	0.82	-2.44	-1.41	-0.97	-0.57	0.09	9061	1.00
lp[7,1]	-6.87	0.01	1.49	-10.40	-7.71	-6.62	-5.78	-4.71	14123	1.00
lp[7,2]	-4.21	0.38	12.24	-10.02	-3.96	-2.78	-2.13	-1.66	1017	1.01
lp[7,3]	-0.34	0.01	0.83	-1.76	-0.69	-0.28	0.11	0.77	3371	1.00
lp[8,1]	-7.01	0.01	1.35	-10.26	-7.74	-6.76	-6.02	-5.14	14228	1.00
lp[8,2]	-8.89	0.63	19.88	-21.25	-9.27	-6.27	-4.54	-3.10	996	1.01
lp[8,3]	-1.10	0.03	1.29	-2.73	-1.46	-1.00	-0.58	0.11	2095	1.00
lp[9,1]	-7.02	0.01	1.29	-10.15	-7.70	-6.77	-6.08	-5.28	13893	1.00
lp[9,2]	-8.91	0.36	11.93	-16.37	-10.05	-7.74	-5.70	-3.64	1081	1.01
lp[9,3]	-1.29	0.03	1.23	-3.08	-1.71	-1.18	-0.73	0.07	1966	1.00
lp[10,1]	-7.96	0.01	1.60	-11.81	-8.83	-7.66	-6.79	-5.72	13776	1.00
lp[10,2]	-6.14	0.02	1.63	-9.35	-6.97	-6.01	-5.17	-3.62	7294	1.00
lp[10,3]	-1.44	0.02	0.94	-3.13	-1.80	-1.33	-0.95	-0.27	2812	1.00
lp[11,1]	-7.98	0.01	1.52	-11.69	-8.80	-7.69	-6.87	-5.90	13508	1.00
lp[11,2]	-9.92	0.43	13.98	-17.67	-10.73	-8.58	-6.78	-4.33	1042	1.01
lp[11,3]	-1.79	0.02	1.13	-3.72	-2.24	-1.67	-1.21	-0.43	2518	1.00
lp[12,1]	-8.33	0.01	1.37	-11.73	-9.02	-8.02	-7.32	-6.58	13652	1.00
lp[12,2]	-14.46	0.81	25.29	-26.80	-15.27	-12.00	-9.29	-5.94	972	1.01
lp[12,3]	-3.16	0.04	1.89	-5.71	-3.78	-2.97	-2.32	-1.33	2095	1.00
lp[13,1]	-8.90	0.01	1.21	-11.96	-9.47	-8.58	-8.00	-7.52	14082	1.00
lp[13,2]	-16.86	0.98	30.29	-30.80	-17.18	-13.85	-11.25	-7.66	954	1.01
lp[13,3]	-5.03	0.06	2.58	-8.64	-5.92	-4.75	-3.83	-2.47	2105	1.00
lp[14,1]	-9.18	0.01	1.08	-11.97	-9.65	-8.87	-8.39	-8.04	13835	1.00
lp[14,2]	-15.69	0.76	23.59	-26.65	-15.92	-13.29	-11.36	-8.58	970	1.01
lp[14,3]	-6.22	0.06	2.75	-10.60	-7.36	-5.91	-4.76	-3.07	2397	1.00
lp[15,1]	-9.31	0.01	1.14	-12.28	-9.82	-9.00	-8.47	-8.08	13144	1.00
lp[15,2]	-10.77	0.17	6.03	-14.71	-11.21	-10.11	-9.27	-8.11	1229	1.01
lp[15,3]	-6.09	0.04	2.26	-10.28	-7.23	-5.84	-4.69	-3.03	3868	1.00
lp[16,1]	-9.34	0.01	1.09	-12.20	-9.82	-9.03	-8.53	-8.16	12426	1.00
lp[16,2]	-13.08	0.44	14.21	-20.32	-13.48	-11.56	-10.19	-8.46	1025	1.01
lp[16,3]	-6.41	0.03	2.17	-10.49	-7.66	-6.21	-4.95	-3.13	4228	1.00
lp[17,1]	-9.74	0.01	0.97	-12.34	-10.14	-9.45	-9.04	-8.76	11766	1.00
lp[17,2]	-16.97	0.86	26.64	-29.26	-17.13	-14.18	-12.06	-9.52	960	1.01
lp[17,3]	-7.88	0.05	2.91	-12.78	-9.38	-7.63	-6.13	-3.94	3085	1.00
lp[18,1]	-10.09	0.01	1.12	-13.05	-10.58	-9.78	-9.27	-8.92	11888	1.00
lp[18,2]	-10.52	0.09	3.40	-13.71	-10.93	-10.09	-9.47	-8.66	1585	1.00
lp[18,3]	-7.72	0.04	2.47	-12.36	-9.13	-7.53	-6.09	-3.98	4880	1.00
lp[19,1]	-10.19	0.01	1.07	-13.02	-10.65	-9.88	-9.41	-9.08	11186	1.00
lp[19,2]	-14.70	0.57	17.86	-23.52	-14.94	-12.75	-11.25	-9.43	996	1.01
lp[19,3]	-8.13	0.04	2.36	-12.11	-9.60	-8.09	-6.57	-4.24	4388	1.00
lp[20,1]	-10.51	0.01	0.99	-13.13	-10.91	-10.21	-9.79	-9.51	10379	1.00
lp[20,2]	-17.23	0.79	24.53	-28.52	-17.39	-14.69	-12.70	-10.31	966	1.01
lp[20,3]	-9.38	0.05	2.92	-14.10	-11.04	-9.31	-7.56	-4.89	3395	1.00

lp[21,1]	-10.85	0.01	0.94	-13.34	-11.22	-10.58	-10.18	-9.92	9516	1.00
lp[21,2]	-17.85	0.81	25.21	-29.35	-17.89	-15.19	-13.29	-10.94	962	1.01
lp[21,3]	-10.67	0.06	3.36	-16.18	-12.54	-10.57	-8.60	-5.59	3314	1.00
lp[22,1]	-11.43	0.01	0.90	-13.81	-11.78	-11.16	-10.79	-10.55	8642	1.00
lp[22,2]	-19.72	0.99	30.35	-33.39	-19.62	-16.49	-14.31	-11.77	949	1.01
lp[22,3]	-12.40	0.07	3.88	-18.73	-14.47	-12.27	-10.06	-6.61	3255	1.00
lp[23,1]	-11.76	0.01	0.92	-14.20	-12.12	-11.48	-11.10	-10.85	8100	1.00
lp[23,2]	-18.67	0.80	24.74	-29.82	-18.64	-16.01	-14.21	-12.07	963	1.01
lp[23,3]	-13.46	0.07	4.01	-20.37	-15.58	-13.33	-11.05	-7.23	3545	1.00
lp[24,1]	-12.60	0.01	0.97	-15.15	-12.99	-12.31	-11.91	-11.64	7845	1.00
lp[24,2]	-22.15	1.16	35.59	-38.03	-21.97	-18.34	-15.85	-13.06	940	1.01
lp[24,3]	-15.41	0.08	4.50	-22.90	-17.62	-15.32	-12.87	-8.60	3191	1.00
lp[25,1]	-12.79	0.01	1.05	-15.56	-13.21	-12.47	-12.03	-11.74	7729	1.00
lp[25,2]	-18.70	0.67	20.82	-28.39	-18.75	-16.46	-14.88	-12.98	977	1.01
lp[25,3]	-15.91	0.07	4.41	-23.98	-18.06	-15.69	-13.43	-9.00	3755	1.00
lp[26,1]	-12.86	0.01	1.10	-15.73	-13.31	-12.53	-12.07	-11.77	7732	1.00
lp[26,2]	-14.82	0.22	7.39	-19.41	-15.18	-13.99	-13.13	-12.04	1149	1.01
lp[26,3]	-14.86	0.05	3.45	-21.68	-16.49	-14.63	-12.96	-8.96	4843	1.00
lp[27,1]	-13.53	0.01	1.10	-16.42	-13.96	-13.20	-12.74	-12.44	7935	1.00
lp[27,2]	-12.87	0.04	1.99	-16.15	-13.37	-12.52	-11.92	-11.20	2894	1.00
lp[27,3]	-13.39	0.03	2.32	-17.84	-14.36	-13.23	-12.23	-9.26	4818	1.00
lp[28,1]	-15.14	0.01	1.18	-18.27	-15.58	-14.78	-14.30	-13.98	9273	1.00
lp[28,2]	-12.26	0.02	1.43	-15.30	-12.77	-11.96	-11.40	-10.76	5941	1.00
lp[28,3]	-12.77	0.02	1.71	-15.99	-13.41	-12.57	-11.90	-10.23	4792	1.00
lp[29,1]	-16.52	0.01	1.41	-20.33	-17.04	-16.08	-15.52	-15.16	11000	1.00
lp[29,2]	-12.07	0.02	1.50	-15.30	-12.68	-11.81	-11.15	-10.21	6775	1.00
lp[29,3]	-12.12	0.01	1.19	-14.94	-12.66	-11.89	-11.34	-10.52	9451	1.00
lp[30,1]	-17.05	0.01	1.56	-21.24	-17.63	-16.57	-15.94	-15.53	11384	1.00
lp[30,2]	-12.54	0.05	2.60	-16.42	-13.22	-12.16	-11.36	-10.22	2493	1.00
lp[30,3]	-11.31	0.01	1.21	-14.23	-11.88	-11.08	-10.49	-9.66	7750	1.00
lp[31,1]	-22.35	0.02	2.72	-29.56	-23.56	-21.56	-20.35	-19.52	15758	1.00
lp[31,2]	-14.86	0.39	12.06	-18.31	-14.72	-13.76	-13.11	-12.48	938	1.01
lp[31,3]	-14.94	0.03	2.39	-18.78	-15.90	-14.71	-13.69	-12.07	5819	1.00
lp[32,1]	-24.66	0.03	3.38	-33.40	-26.25	-23.76	-22.14	-20.96	16000	1.00
lp[32,2]	-14.23	0.07	2.82	-18.45	-14.75	-13.75	-13.05	-12.35	1732	1.00
lp[32,3]	-14.67	0.02	1.50	-17.85	-15.40	-14.49	-13.74	-12.42	7358	1.00
lp[33,1]	-26.45	0.03	3.91	-36.50	-28.37	-25.47	-23.53	-21.99	15971	1.00
lp[33,2]	-14.08	0.04	2.25	-18.50	-14.72	-13.63	-12.85	-12.04	2547	1.00
lp[33,3]	-14.28	0.02	1.39	-17.42	-14.97	-14.05	-13.34	-12.30	7796	1.00
lp[34,1]	-27.60	0.03	4.26	-38.46	-29.73	-26.55	-24.42	-22.64	15834	1.00
lp[34,2]	-14.02	0.04	2.12	-18.91	-14.75	-13.55	-12.68	-11.79	3242	1.00
lp[34,3]	-13.63	0.02	1.38	-16.95	-14.34	-13.38	-12.64	-11.74	7336	1.00
lp[35,1]	-29.76	0.04	4.90	-42.09	-32.27	-28.61	-26.10	-23.83	15822	1.00
lp[35,2]	-14.02	0.06	2.99	-19.34	-14.85	-13.48	-12.48	-11.44	2140	1.00
lp[35,3]	-14.07	0.02	1.61	-17.66	-14.89	-13.81	-12.96	-11.87	7403	1.00
lp[36,1]	-29.77	0.04	4.80	-41.90	-32.20	-28.62	-26.19	-24.04	15745	1.00
lp[36,2]	-17.68	0.42	13.52	-26.17	-17.56	-16.01	-15.01	-14.06	1016	1.01
lp[36,3]	-13.48	0.03	1.70	-17.35	-14.32	-13.16	-12.27	-11.32	4615	1.00
lp[37,1]	-31.51	0.04	5.32	-44.82	-34.28	-30.29	-27.54	-24.99	15690	1.00
lp[37,2]	-16.69	0.05	3.06	-24.57	-17.49	-15.92	-14.89	-13.89	3408	1.00
lp[37,3]	-14.11	0.02	1.67	-18.01	-14.96	-13.79	-12.92	-11.92	5691	1.00
lp[38,1]	-32.67	0.05	5.68	-46.76	-35.64	-31.39	-28.42	-25.60	15588	1.00
lp[38,2]	-16.63	0.05	3.03	-24.63	-17.52	-15.84	-14.74	-13.65	4118	1.00
lp[38,3]	-14.25	0.02	1.65	-18.19	-15.10	-13.93	-13.06	-12.00	6110	1.00
lp[39,1]	-32.84	0.05	5.71	-47.04	-35.80	-31.54	-28.57	-25.73	15464	1.00
lp[39,2]	-18.10	0.18	6.92	-28.80	-18.75	-16.73	-15.48	-14.27	1410	1.00
lp[39,3]	-13.98	0.02	1.66	-17.99	-14.81	-13.65	-12.79	-11.82	5152	1.00
lp[40,1]	-33.00	0.04	5.58	-46.92	-35.86	-31.71	-28.83	-26.18	15492	1.00
lp[40,2]	-23.67	0.68	21.66	-42.90	-23.85	-20.29	-18.44	-16.88	1016	1.01
lp[40,3]	-14.83	0.04	2.00	-18.79	-15.63	-14.45	-13.61	-12.74	2830	1.00
lp[41,1]	-33.07	0.04	5.56	-47.01	-35.90	-31.77	-28.92	-26.31	15375	1.00
lp[41,2]	-23.77	0.24	9.48	-38.84	-25.84	-21.51	-19.24	-17.39	1530	1.00
lp[41,3]	-14.79	0.03	1.84	-18.76	-15.59	-14.42	-13.57	-12.68	3047	1.00
lp[42,1]	-33.15	0.04	5.55	-47.06	-35.93	-31.82	-29.00	-26.42	15225	1.00
lp[42,2]	-24.96	0.24	9.65	-40.26	-27.79	-22.75	-20.03	-17.87	1596	1.00
lp[42,3]	-14.76	0.03	1.87	-18.79	-15.59	-14.39	-13.53	-12.57	3031	1.00
lp[43,1]	-34.04	0.05	5.84	-48.61	-37.00	-32.68	-29.68	-26.88	15113	1.00
lp[43,2]	-24.03	0.05	5.13	-36.04	-27.14	-22.75	-20.00	-17.78	9627	1.00
lp[43,3]	-14.89	0.03	1.80	-18.95	-15.73	-14.53	-13.67	-12.70	3617	1.00
lp[44,1]	-36.86	0.05	6.64	-53.29	-40.32	-35.36	-31.90	-28.50	15259	1.00
lp[44,2]	-24.23	0.11	5.90	-35.95	-26.86	-22.92	-20.37	-18.31	2799	1.00
lp[44,3]	-16.50	0.03	1.88	-20.51	-17.34	-16.16	-15.27	-14.26	4354	1.00
lp[45,1]	-36.97	0.05	6.65	-53.43	-40.40	-35.48	-32.00	-28.61	15129	1.00
lp[45,2]	-25.91	0.22	8.95	-40.59	-28.90	-24.00	-21.01	-18.69	1720	1.00
lp[45,3]	-16.41	0.03	1.71	-20.41	-17.24	-16.08	-15.20	-14.22	4284	1.00
lp[46,1]	-36.98	0.05	6.58	-53.25	-40.36	-35.49	-32.07	-28.77	15037	1.00
lp[46,2]	-28.60	0.37	13.51	-47.09	-32.00	-25.96	-22.27	-19.48	1356	1.00

lp[46,3]	-16.59	0.03	1.82	-20.55	-17.41	-16.25	-15.38	-14.42	3269	1.00
lp[47,1]	-37.06	0.05	6.46	-53.15	-40.35	-35.57	-32.25	-29.09	15014	1.00
lp[47,2]	-32.12	0.56	19.27	-53.11	-35.99	-29.01	-24.33	-20.83	1166	1.01
lp[47,3]	-17.24	0.04	2.07	-21.27	-18.05	-16.87	-16.00	-15.03	2461	1.00
lp[48,1]	-37.64	0.05	6.65	-54.18	-41.04	-36.12	-32.69	-29.36	14897	1.00
lp[48,2]	-29.61	0.08	6.56	-44.33	-33.24	-29.05	-24.44	-20.80	7374	1.00
lp[48,3]	-17.21	0.03	1.86	-21.24	-18.05	-16.85	-15.97	-14.98	3117	1.00
lp[49,1]	-37.67	0.05	6.61	-54.13	-41.02	-36.14	-32.75	-29.46	14788	1.00
lp[49,2]	-31.97	0.30	11.96	-49.40	-35.85	-30.61	-25.47	-21.30	1593	1.00
lp[49,3]	-17.28	0.03	1.90	-21.40	-18.15	-16.92	-16.03	-14.98	3019	1.00
lp[50,1]	-38.88	0.06	6.99	-56.20	-42.46	-37.30	-33.68	-30.09	14751	1.00
lp[50,2]	-30.27	0.05	6.12	-44.54	-33.75	-29.84	-25.44	-21.33	12811	1.00
lp[50,3]	-17.62	0.03	1.83	-21.75	-18.49	-17.27	-16.36	-15.32	3591	1.00
lp[51,1]	-38.95	0.06	6.88	-56.07	-42.45	-37.37	-33.84	-30.40	14721	1.00
lp[51,2]	-35.12	0.55	18.78	-54.69	-39.05	-33.11	-27.47	-22.52	1184	1.01
lp[51,3]	-18.25	0.04	2.06	-22.40	-19.13	-17.87	-16.96	-15.88	2682	1.00
lp[52,1]	-39.06	0.06	6.90	-56.20	-42.56	-37.47	-33.96	-30.48	14603	1.00
lp[52,2]	-34.11	0.20	9.73	-51.26	-38.04	-33.28	-28.14	-22.76	2277	1.00
lp[52,3]	-18.19	0.04	1.99	-22.44	-19.12	-17.81	-16.87	-15.74	2919	1.00
lp[53,1]	-39.10	0.06	6.87	-56.20	-42.56	-37.50	-34.01	-30.55	14496	1.00
lp[53,2]	-35.27	0.28	11.53	-52.94	-39.22	-34.24	-29.08	-23.15	1739	1.00
lp[53,3]	-18.23	0.04	2.09	-22.60	-19.22	-17.85	-16.86	-15.65	2868	1.00
lp[54,1]	-39.34	0.06	6.96	-56.68	-42.85	-37.74	-34.20	-30.65	14387	1.00
lp[54,2]	-34.56	0.14	8.17	-50.98	-38.37	-33.77	-29.45	-23.21	3540	1.00
lp[54,3]	-18.13	0.04	2.10	-22.68	-19.16	-17.76	-16.72	-15.45	3173	1.00
lp[55,1]	-39.39	0.06	6.86	-56.53	-42.81	-37.78	-34.32	-30.88	14331	1.00
lp[55,2]	-38.12	0.49	17.38	-57.52	-42.14	-36.44	-31.19	-24.20	1242	1.00
lp[55,3]	-18.64	0.05	2.34	-23.32	-19.71	-18.25	-17.15	-15.79	2621	1.00
lp[56,1]	-39.41	0.06	6.84	-56.47	-42.82	-37.79	-34.37	-30.97	14229	1.00
lp[56,2]	-37.50	0.30	11.99	-55.04	-41.28	-36.32	-31.98	-24.64	1622	1.00
lp[56,3]	-18.73	0.05	2.41	-23.63	-19.87	-18.34	-17.17	-15.72	2752	1.00
lp[57,1]	-39.53	0.06	6.88	-56.67	-42.99	-37.91	-34.45	-31.02	14123	1.00
lp[57,2]	-36.96	0.19	9.31	-53.71	-40.60	-35.90	-32.12	-24.83	2340	1.00
lp[57,3]	-18.67	0.04	2.43	-23.78	-19.88	-18.27	-17.04	-15.48	3154	1.00
lp[58,1]	-42.38	0.06	7.63	-61.37	-46.24	-40.64	-36.74	-32.77	14350	1.00
lp[58,2]	-35.77	0.11	7.04	-51.07	-38.98	-34.67	-31.52	-25.64	4356	1.00
lp[58,3]	-20.31	0.04	2.23	-24.92	-21.32	-19.91	-18.86	-17.60	3222	1.00
lp[59,1]	-42.39	0.06	7.56	-61.20	-46.20	-40.65	-36.81	-32.91	14278	1.00
lp[59,2]	-39.25	0.40	14.52	-57.09	-42.75	-37.57	-33.49	-26.34	1325	1.00
lp[59,3]	-20.58	0.04	2.18	-25.38	-21.66	-20.18	-19.08	-17.75	3377	1.00
lp[60,1]	-44.66	0.07	8.20	-64.96	-48.82	-42.80	-38.61	-34.25	14397	1.00
lp[60,2]	-37.56	0.07	6.96	-53.61	-41.12	-36.47	-33.05	-26.84	8709	1.00
lp[60,3]	-21.72	0.03	2.06	-26.26	-22.72	-21.34	-20.31	-19.08	3708	1.00
lp[61,1]	-45.92	0.07	8.60	-67.15	-50.32	-44.01	-39.57	-34.89	14390	1.00
lp[61,2]	-37.39	0.06	6.64	-53.25	-40.92	-36.31	-32.93	-26.91	11344	1.00
lp[61,3]	-22.08	0.03	1.93	-26.64	-23.10	-21.72	-20.68	-19.46	4585	1.00
alphaReordered[1]	0.58	0.00	0.08	0.42	0.53	0.58	0.64	0.74	10519	1.00
alphaReordered[2]	1.27	0.00	0.15	0.98	1.17	1.26	1.35	1.57	12288	1.00
alphaReordered[3]	0.86	0.00	0.08	0.71	0.81	0.86	0.91	1.01	10576	1.00
path[1]	1.00	NaN	0.00	1.00	1.00	1.00	1.00	1.00	NaN	NaN
path[2]	1.00	NaN	0.01	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[3]	1.00	NaN	0.01	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[4]	1.00	NaN	0.02	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[5]	1.00	NaN	0.02	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[6]	1.00	NaN	0.02	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[7]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[8]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[9]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[10]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[11]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[12]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[13]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[14]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[15]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[16]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[17]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[18]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[19]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[20]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[21]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[22]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[23]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[24]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[25]	1.00	NaN	0.04	1.00	1.00	1.00	1.00	1.00	NaN	1.00
path[26]	1.01	0.00	0.12	1.00	1.00	1.00	1.00	1.00	11982	1.00
path[27]	1.84	0.00	0.37	1.00	2.00	2.00	2.00	2.00	12637	1.00
path[28]	1.98	0.00	0.15	2.00	2.00	2.00	2.00	2.00	7657	1.00

path[29]	1.99	0.00	0.15	2.00	2.00	2.00	2.00	2.00	7834	1.00
path[30]	1.99	0.00	0.18	2.00	2.00	2.00	2.00	2.00	3802	1.00
path[31]	2.02	0.00	0.16	2.00	2.00	2.00	2.00	2.00	2627	1.00
path[32]	2.03	0.00	0.17	2.00	2.00	2.00	2.00	3.00	2612	1.00
path[33]	2.04	0.00	0.21	2.00	2.00	2.00	2.00	3.00	3397	1.00
path[34]	2.05	0.00	0.23	2.00	2.00	2.00	2.00	3.00	4084	1.00
path[35]	2.05	0.00	0.23	2.00	2.00	2.00	2.00	3.00	4084	1.00
path[36]	2.80	0.00	0.40	2.00	3.00	3.00	3.00	3.00	10782	1.00
path[37]	2.80	0.00	0.40	2.00	3.00	3.00	3.00	3.00	10782	1.00
path[38]	2.80	0.00	0.40	2.00	3.00	3.00	3.00	3.00	10938	1.00
path[39]	2.97	0.00	0.18	2.00	3.00	3.00	3.00	3.00	4040	1.00
path[40]	2.98	0.00	0.15	3.00	3.00	3.00	3.00	3.00	3293	1.00
path[41]	2.98	0.00	0.15	3.00	3.00	3.00	3.00	3.00	3281	1.00
path[42]	2.98	0.00	0.15	3.00	3.00	3.00	3.00	3.00	3281	1.00
path[43]	2.98	0.00	0.15	3.00	3.00	3.00	3.00	3.00	3281	1.00
path[44]	2.98	0.00	0.15	3.00	3.00	3.00	3.00	3.00	3281	1.00
path[45]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2419	1.00
path[46]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2366	1.00
path[47]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2366	1.00
path[48]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[49]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[50]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[51]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[52]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[53]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[54]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2361	1.00
path[55]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2353	1.00
path[56]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2353	1.00
path[57]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2353	1.00
path[58]	2.99	0.00	0.12	3.00	3.00	3.00	3.00	3.00	2525	1.00
path[59]	2.99	0.00	0.11	3.00	3.00	3.00	3.00	3.00	2500	1.00
path[60]	2.99	0.00	0.10	3.00	3.00	3.00	3.00	3.00	4187	1.00
path[61]	2.99	0.00	0.09	3.00	3.00	3.00	3.00	3.00	6372	1.00
changePoint1	-4.76	0.04	1.50	-5.00	-5.00	-5.00	-5.00	-4.00	1693	1.01
changePoint2	4.65	0.05	3.18	0.00	4.00	4.00	4.00	8.00	4333	1.00
meanSpeed[1]	-0.58	0.00	0.08	-0.74	-0.64	-0.58	-0.53	-0.42	10519	1.00
meanSpeed[2]	-1.27	0.00	0.15	-1.57	-1.35	-1.26	-1.17	-0.98	12288	1.00
meanSpeed[3]	-0.86	0.00	0.08	-1.01	-0.91	-0.86	-0.81	-0.71	10576	1.00
lp__	-28.99	0.04	2.18	-34.34	-30.12	-28.55	-27.41	-26.10	3574	1.00

Samples were drawn using NUTS(diag_e) at Wed Aug 19 23:02:30 2020.
For each parameter, `n_eff` is a crude measure of effective sample size,
and `Rhat` is the potential scale reduction factor on split chains (at
convergence, `Rhat=1`).

Stan code for the Bayesian three-state hidden Markov model of hourly speed. See methods section for details.

```

data{
  int T;
  int K;
  real Speed[T];
  real DayNight[T]; // covariate
  real NDVI[T];
  real Slope[T];
  real Protected[T];
}

transformed data {
  real log_unif;
  log_unif = -log(T);
}

parameters{
  positive_ordered[K] alpha;
  real beta1; // covariate parameter
  real beta2;
  real beta3;
  real beta4;
}

transformed parameters{
  matrix[T,K] lp;
  vector[K] alphaReordered;

  alphaReordered[1] = alpha[1];
  alphaReordered[2] = alpha[3];
  alphaReordered[3] = alpha[2];

  lp[1] = rep_row_vector(-log(K),K);

  for(t in 2:T){
    for(k in 1:K){
      if(Speed[t]==-99){
        lp[t,k] = lp[t-1,k];
      }else{
        if(k==1) // early (long)
          lp[t,k] = lp[t-1,k] + exponential_lpdf(Speed[t]|exp(alphaReordered[k] + beta1 *
DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
        else if(k==2) // mid (short)
          lp[t,k] = log_sum_exp(lp[t-1,1:2]) + exponential_lpdf(Speed[t]|exp(alphaReordered[k]
+ beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
        else // late (medium)
          lp[t,k] = log_sum_exp(lp[t-1,2:3]) + exponential_lpdf(Speed[t]|exp(alphaReordered[k]
+ beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
      }
    }
  }
}

model{
  target += log_sum_exp(lp[T]);
  alpha ~ exponential(1);
}

generated quantities{

  vector[K] stepLength;
  int changePoint1;
  int changePoint2;
  changePoint1 = -1;
  changePoint2 = -1;

  for(k in 1:K)
    stepLength[k] = 1/(exp(alphaReordered[k]));
  {

```



```

int path[T];
matrix[T,K] mLogProb;
int mBestIndex[T-1,K];
real aLogProbTemp;
int aBestFinal;

for(t in 1:T){
  for(k in 1:K){
    if(t==1){
      if(k==1)
        mLogProb[t,k] = exponential_lpdf(Speed[t]|exp(alphaReordered[k] + beta1 *
DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
      else
        mLogProb[t,k] = negative_infinity();
    }else if(t==2){
      if(k==1){
        mLogProb[t,k] = mLogProb[t-1,1] + exponential_lpdf(Speed[t]|exp(alphaReordered[k] +
beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
        mBestIndex[t-1,k] = 1;
      }
      else if(k==2){
        mLogProb[t,k] = mLogProb[t-1,1] + exponential_lpdf(Speed[t]|exp(alphaReordered[k] +
beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
        mBestIndex[t-1,k] = 1;
      }
      else{
        mLogProb[t,k] = negative_infinity();
        mBestIndex[t-1,k] = 0;
      }
    }else if(t==3){
      if(k==1){
        mLogProb[t,k] = mLogProb[t-1,1] + exponential_lpdf(Speed[t]|exp(alphaReordered[k] +
beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
        mBestIndex[t-1,k] = 1;
      }
      else if(k==2){
        mLogProb[t,k] = max(mLogProb[t-1,1:2]) +
exponential_lpdf(Speed[t]|exp(alphaReordered[k] + beta1 * DayNight[t] + beta2 * NDVI[t] +
beta3*Slope[t] + beta4*Protected[t]));
        aLogProbTemp = negative_infinity();
        for(i in 1:2){
          if(mLogProb[t-1,i]>aLogProbTemp){
            aLogProbTemp = mLogProb[t-1,i];
            mBestIndex[t-1,k] = i;
          }
        }
      }
      else{
        mLogProb[t,k] = mLogProb[t-1,2] + exponential_lpdf(Speed[t]|exp(alphaReordered[k] +
beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
        mBestIndex[t-1,k] = 2;
      }
    }else{
      if(Speed[t]==-99){
        mLogProb[t,k] = mLogProb[t-1,k];
        mBestIndex[t-1,k] = mBestIndex[t-2,k];
      }else{
        if(k==1){
          mLogProb[t,k] = mLogProb[t-1,1] + exponential_lpdf(Speed[t]|exp(alphaReordered[k]
+ beta1 * DayNight[t] + beta2 * NDVI[t] + beta3*Slope[t] + beta4*Protected[t]));
          mBestIndex[t-1,k] = 1;
        }
        else if(k==2){
          mLogProb[t,k] = max(mLogProb[t-1,1:2]) +
exponential_lpdf(Speed[t]|exp(alphaReordered[k] + beta1 * DayNight[t] + beta2 * NDVI[t] +
beta3*Slope[t] + beta4*Protected[t]));
          aLogProbTemp = negative_infinity();
          for(i in 1:2){
            if(mLogProb[t-1,i]>aLogProbTemp){
              aLogProbTemp = mLogProb[t-1,i];
              mBestIndex[t-1,k] = i;
            }
          }
        }
      }
    }
  }
}

```

```

        mLogProb[t,k] = max(mLogProb[t-1,2:3]) +
exponential_lpdf(Speed[t]|exp(alphaReordered[k] + beta1 * DayNight[t] + beta2 * NDVI[t] +
beta3*Slope[t] + beta4*Protected[t]));
        aLogProbTemp = negative_infinity();
        for(i in 2:3){
            if(mLogProb[t-1,i]>aLogProbTemp){
                aLogProbTemp = mLogProb[t-1,i];
                mBestIndex[t-1,k] = i;
            }
        }
    }
}
}

aLogProbTemp = negative_infinity();
for(k in 1:K){
    if(mLogProb[T,k]>aLogProbTemp){
        aLogProbTemp = mLogProb[T,k];
        aBestFinal = k;
    }
}

for(t in 1:T){
    int aIndex; aIndex = T - t + 1;
    if(aIndex == T){
        path[aIndex] = aBestFinal;
    }else if(aIndex==1){
        path[aIndex] = 1;
    }else{
        path[aIndex] = mBestIndex[aIndex,path[aIndex+1]];
    }
}

for(t in 2:T){
    if(path[t-1]==1){
        if(path[t]-path[t-1]>0)
            changePoint1 = t-1;
    }
    else{
        if(path[t]-path[t-1]>0)
            changePoint2 = t-1;
    }
}
}
}

```

Example model output for Flaubert (Figure 4f) for the Bayesian three-state hidden Markov model of hourly speed (km h⁻¹) for ± 10 days. Note: the change points are the number of fixes since the start of the time period, which was then converted into days.

Inference for Stan model: threeStateFinal_hourly_exponential_missingdata_cov_Down.
 8 chains, each with iter=5000; warmup=2500; thin=1;
 post-warmup draws per chain=2500, total post-warmup draws=20000.

	mean	se_mean	sd	2.50%	25%	50%	75%	97.50%	n_eff	Rhat
alpha[1]	0.09	0.00	0.08	0.00	0.03	0.06	0.12	0.29	10948	1
alpha[2]	0.42	0.00	0.19	0.08	0.27	0.41	0.56	0.78	7290	1
alpha[3]	1.03	0.00	0.15	0.77	0.93	1.02	1.12	1.35	10593	1
beta1	-0.23	0.00	0.10	-0.43	-0.31	-0.24	-0.17	-0.03	10791	1
beta2	0.33	0.00	0.28	-0.26	0.15	0.34	0.51	0.83	10878	1
beta3	0.11	0.00	0.04	0.04	0.09	0.11	0.14	0.18	11352	1
beta4	-0.04	0.00	0.14	-0.32	-0.13	-0.03	0.06	0.21	8716	1
lp[1,1]	-1.10	0.00	0.00	-1.10	-1.10	-1.10	-1.10	-1.10	4	1
lp[1,2]	-1.10	0.00	0.00	-1.10	-1.10	-1.10	-1.10	-1.10	4	1
lp[1,3]	-1.10	0.00	0.00	-1.10	-1.10	-1.10	-1.10	-1.10	4	1
lp[2,1]	-1.29	0.00	0.06	-1.42	-1.32	-1.28	-1.24	-1.19	9580	1
lp[2,2]	-0.52	0.00	0.04	-0.60	-0.54	-0.51	-0.49	-0.46	16141	1
lp[2,3]	-0.48	0.00	0.03	-0.57	-0.50	-0.47	-0.45	-0.44	11012	1
lp[3,1]	-1.75	0.00	0.11	-2.00	-1.81	-1.73	-1.67	-1.58	8687	1
lp[3,2]	-0.66	0.00	0.09	-0.87	-0.71	-0.65	-0.59	-0.51	15643	1
lp[3,3]	-0.19	0.00	0.04	-0.28	-0.21	-0.18	-0.16	-0.14	10388	1
lp[4,1]	-2.24	0.00	0.12	-2.53	-2.30	-2.22	-2.15	-2.06	8726	1
lp[4,2]	-1.32	0.00	0.17	-1.68	-1.43	-1.31	-1.20	-1.04	18046	1
lp[4,3]	-0.22	0.00	0.06	-0.38	-0.25	-0.21	-0.18	-0.14	14175	1
lp[5,1]	-2.30	0.00	0.22	-2.81	-2.43	-2.27	-2.14	-1.96	8613	1
lp[5,2]	-0.56	0.00	0.10	-0.79	-0.63	-0.56	-0.49	-0.40	16544	1
lp[5,3]	0.22	0.00	0.09	0.03	0.16	0.22	0.28	0.37	12676	1
lp[6,1]	-1.93	0.00	0.31	-2.62	-2.12	-1.90	-1.71	-1.42	9750	1
lp[6,2]	0.61	0.00	0.08	0.42	0.56	0.62	0.67	0.74	12469	1
lp[6,3]	1.22	0.00	0.16	0.89	1.12	1.23	1.33	1.50	11343	1
lp[7,1]	-1.39	0.00	0.42	-2.31	-1.66	-1.35	-1.09	-0.66	10896	1
lp[7,2]	2.11	0.00	0.12	1.85	2.03	2.12	2.20	2.33	15254	1
lp[7,3]	2.52	0.00	0.25	2.02	2.35	2.52	2.69	2.97	11731	1
lp[8,1]	-3.95	0.00	0.35	-4.72	-4.17	-3.93	-3.70	-3.35	10042	1
lp[8,2]	-3.68	0.01	0.61	-5.04	-4.04	-3.62	-3.26	-2.66	11539	1
lp[8,3]	-0.28	0.00	0.37	-1.07	-0.53	-0.25	-0.01	0.32	8843	1
lp[9,1]	-6.21	0.00	0.34	-6.92	-6.43	-6.20	-5.97	-5.58	12648	1
lp[9,2]	-8.02	0.01	0.94	-10.03	-8.62	-7.96	-7.37	-6.33	13513	1
lp[9,3]	-3.11	0.01	0.72	-4.67	-3.57	-3.03	-2.56	-1.93	9406	1
lp[10,1]	-6.57	0.00	0.34	-7.30	-6.80	-6.56	-6.33	-5.95	12057	1
lp[10,2]	-6.32	0.00	0.44	-7.20	-6.61	-6.31	-6.02	-5.48	12492	1
lp[10,3]	-3.35	0.01	0.69	-4.88	-3.79	-3.27	-2.84	-2.26	9539	1
lp[11,1]	-6.64	0.00	0.36	-7.40	-6.86	-6.62	-6.39	-6.00	12155	1
lp[11,2]	-5.29	0.00	0.38	-6.06	-5.53	-5.28	-5.03	-4.58	12546	1
lp[11,3]	-3.13	0.01	0.58	-4.43	-3.50	-3.06	-2.70	-2.22	10064	1
lp[12,1]	-7.03	0.00	0.37	-7.83	-7.26	-7.00	-6.77	-6.37	11807	1
lp[12,2]	-5.25	0.00	0.39	-6.05	-5.50	-5.23	-4.98	-4.54	12324	1
lp[12,3]	-3.26	0.00	0.49	-4.37	-3.57	-3.20	-2.90	-2.48	10392	1
lp[13,1]	-7.04	0.00	0.41	-7.95	-7.29	-7.00	-6.75	-6.33	12438	1
lp[13,2]	-4.57	0.00	0.36	-5.33	-4.80	-4.55	-4.32	-3.91	12469	1
lp[13,3]	-2.92	0.00	0.39	-3.80	-3.16	-2.87	-2.63	-2.27	11790	1
lp[14,1]	-6.83	0.00	0.48	-7.89	-7.13	-6.79	-6.49	-6.00	13467	1
lp[14,2]	-3.39	0.00	0.32	-4.07	-3.59	-3.37	-3.16	-2.79	14016	1
lp[14,3]	-2.21	0.00	0.31	-2.87	-2.40	-2.19	-1.99	-1.63	15911	1
lp[15,1]	-7.15	0.00	0.52	-8.29	-7.47	-7.10	-6.78	-6.27	14065	1
lp[15,2]	-3.63	0.00	0.34	-4.36	-3.84	-3.61	-3.39	-3.01	12421	1
lp[15,3]	-2.16	0.00	0.31	-2.81	-2.35	-2.14	-1.95	-1.58	16695	1
lp[16,1]	-7.44	0.00	0.57	-8.69	-7.79	-7.38	-7.03	-6.48	14177	1
lp[16,2]	-3.44	0.00	0.33	-4.16	-3.65	-3.42	-3.20	-2.84	12425	1
lp[16,3]	-2.03	0.00	0.29	-2.64	-2.22	-2.02	-1.83	-1.48	17337	1
lp[17,1]	-7.59	0.01	0.63	-8.98	-7.98	-7.53	-7.14	-6.54	14490	1
lp[17,2]	-3.09	0.00	0.33	-3.80	-3.29	-3.07	-2.86	-2.51	12561	1
lp[17,3]	-1.75	0.00	0.30	-2.38	-1.95	-1.74	-1.54	-1.19	17058	1
lp[18,1]	-7.50	0.01	0.71	-9.08	-7.95	-7.44	-6.99	-6.30	14887	1
lp[18,2]	-2.13	0.00	0.30	-2.77	-2.31	-2.10	-1.92	-1.59	13606	1
lp[18,3]	-1.11	0.00	0.35	-1.83	-1.34	-1.10	-0.87	-0.47	15166	1
lp[19,1]	-8.38	0.01	0.73	-10.00	-8.83	-8.31	-7.86	-7.16	14848	1
lp[19,2]	-3.37	0.00	0.36	-4.16	-3.59	-3.34	-3.11	-2.72	13368	1
lp[19,3]	-1.68	0.00	0.31	-2.32	-1.88	-1.67	-1.46	-1.11	17299	1
lp[20,1]	-11.51	0.00	0.54	-12.71	-11.82	-11.45	-11.13	-10.60	18509	1

lp[20,2]	-10.78	0.01	0.82	-12.49	-11.31	-10.74	-10.21	-9.30	15511	1
lp[20,3]	-5.64	0.01	0.52	-6.83	-5.95	-5.58	-5.26	-4.80	10560	1
lp[21,1]	-15.24	0.00	0.50	-16.37	-15.54	-15.18	-14.89	-14.42	14188	1
lp[21,2]	-19.89	0.02	1.86	-24.18	-20.97	-19.67	-18.58	-16.89	11425	1
lp[21,3]	-10.81	0.01	1.32	-13.63	-11.72	-10.68	-9.76	-8.75	8245	1
lp[22,1]	-18.10	0.01	0.66	-19.49	-18.53	-18.06	-17.63	-16.90	15102	1
lp[22,2]	-22.52	0.02	1.82	-26.54	-23.63	-22.35	-21.23	-19.42	13073	1
lp[22,3]	-14.74	0.02	2.11	-19.31	-16.15	-14.52	-13.08	-11.45	8776	1
lp[23,1]	-19.16	0.01	0.73	-20.71	-19.64	-19.12	-18.64	-17.85	15438	1
lp[23,2]	-20.83	0.01	1.27	-23.56	-21.62	-20.73	-19.94	-18.63	13988	1
lp[23,3]	-16.16	0.03	2.41	-21.42	-17.74	-15.89	-14.28	-12.46	8957	1
lp[24,1]	-19.01	0.01	0.66	-20.43	-19.43	-18.96	-18.54	-17.85	15051	1
lp[24,2]	-18.45	0.01	0.80	-20.13	-18.96	-18.40	-17.89	-17.02	15133	1
lp[24,3]	-15.78	0.02	2.22	-20.55	-17.28	-15.54	-14.01	-12.36	8945	1
lp[25,1]	-19.53	0.01	0.66	-20.95	-19.94	-19.47	-19.05	-18.39	14979	1
lp[25,2]	-19.02	0.01	0.99	-21.16	-19.64	-18.93	-18.31	-17.30	14703	1
lp[25,3]	-16.12	0.02	2.00	-20.06	-17.61	-15.99	-14.50	-12.87	8822	1
lp[26,1]	-19.69	0.01	0.63	-21.06	-20.08	-19.63	-19.24	-18.63	14756	1
lp[26,2]	-18.84	0.01	0.99	-20.98	-19.47	-18.75	-18.13	-17.14	14570	1
lp[26,3]	-16.11	0.02	1.87	-19.80	-17.49	-16.02	-14.59	-13.05	8857	1
lp[27,1]	-19.50	0.00	0.58	-20.78	-19.86	-19.44	-19.08	-18.54	14411	1
lp[27,2]	-17.94	0.01	0.87	-19.81	-18.49	-17.87	-17.32	-16.45	14616	1
lp[27,3]	-15.62	0.02	1.67	-18.93	-16.84	-15.56	-14.27	-12.89	8861	1
lp[28,1]	-19.51	0.00	0.54	-20.73	-19.84	-19.45	-19.12	-18.64	13445	1
lp[28,2]	-17.43	0.01	0.82	-19.22	-17.95	-17.35	-16.84	-16.07	14571	1
lp[28,3]	-15.31	0.02	1.46	-18.20	-16.35	-15.26	-14.13	-12.92	8832	1
lp[29,1]	-19.23	0.00	0.51	-20.41	-19.53	-19.16	-18.85	-18.44	12074	1
lp[29,2]	-16.42	0.01	0.71	-17.99	-16.85	-16.34	-15.90	-15.26	14627	1
lp[29,3]	-14.62	0.01	1.21	-17.07	-15.46	-14.58	-13.64	-12.65	8822	1
lp[30,1]	-19.33	0.00	0.50	-20.50	-19.62	-19.25	-18.96	-18.56	11713	1
lp[30,2]	-16.46	0.01	0.79	-18.24	-16.94	-16.36	-15.88	-15.22	14330	1
lp[30,3]	-14.44	0.01	1.08	-16.69	-15.17	-14.37	-13.58	-12.71	9012	1
lp[31,1]	-20.89	0.00	0.54	-22.12	-21.21	-20.81	-20.49	-20.03	12648	1
lp[31,2]	-20.30	0.01	1.52	-23.72	-21.22	-20.11	-19.19	-17.86	13679	1
lp[31,3]	-16.38	0.01	1.43	-19.45	-17.32	-16.25	-15.24	-14.15	9526	1
lp[32,1]	-24.50	0.00	0.41	-25.47	-24.73	-24.43	-24.20	-23.90	13654	1
lp[32,2]	-28.09	0.01	1.54	-31.22	-29.14	-28.04	-27.00	-25.30	13001	1
lp[32,3]	-21.10	0.02	1.89	-24.89	-22.44	-21.03	-19.60	-17.97	8831	1
lp[33,1]	-26.63	0.00	0.38	-27.57	-26.83	-26.56	-26.36	-26.11	13820	1
lp[33,2]	-29.39	0.01	0.72	-31.02	-29.82	-29.28	-28.88	-28.22	9412	1
lp[33,3]	-23.87	0.02	2.17	-28.09	-25.47	-23.83	-22.13	-20.23	8375	1
lp[34,1]	-26.38	0.00	0.40	-27.33	-26.59	-26.31	-26.08	-25.81	13412	1
lp[34,2]	-25.36	0.00	0.38	-26.30	-25.56	-25.29	-25.09	-24.84	15017	1
lp[34,3]	-23.26	0.02	2.01	-27.17	-24.75	-23.21	-21.63	-19.88	8515	1
lp[35,1]	-29.76	0.00	0.49	-30.95	-30.02	-29.68	-29.40	-29.07	13754	1
lp[35,2]	-33.41	0.01	1.20	-36.25	-34.09	-33.20	-32.55	-31.60	8531	1
lp[35,3]	-27.53	0.03	2.26	-31.24	-29.45	-27.67	-25.69	-23.43	7627	1
lp[36,1]	-29.84	0.00	0.45	-30.93	-30.07	-29.75	-29.51	-29.22	13242	1
lp[36,2]	-29.62	0.00	0.51	-30.85	-29.90	-29.53	-29.24	-28.88	12793	1
lp[36,3]	-27.46	0.03	2.20	-31.06	-29.33	-27.60	-25.66	-23.49	7640	1
lp[37,1]	-29.53	0.00	0.41	-30.53	-29.74	-29.45	-29.23	-28.98	12567	1
lp[37,2]	-27.86	0.00	0.44	-28.95	-28.09	-27.78	-27.54	-27.26	14897	1
lp[37,3]	-26.51	0.02	1.74	-29.06	-27.99	-26.84	-25.13	-23.12	7481	1
lp[38,1]	-29.79	0.00	0.41	-30.79	-30.01	-29.71	-29.48	-29.23	11853	1
lp[38,2]	-27.45	0.00	0.44	-28.52	-27.67	-27.36	-27.13	-26.86	14859	1
lp[38,3]	-26.13	0.02	1.34	-28.11	-27.15	-26.50	-25.15	-23.32	7355	1
lp[39,1]	-29.71	0.00	0.42	-30.73	-29.93	-29.63	-29.39	-29.13	11789	1
lp[39,2]	-26.59	0.00	0.42	-27.64	-26.80	-26.51	-26.29	-26.01	15482	1
lp[39,3]	-25.44	0.01	1.03	-27.07	-26.16	-25.71	-24.77	-23.15	7444	1
lp[40,1]	-29.67	0.00	0.45	-30.76	-29.91	-29.58	-29.33	-29.05	11177	1
lp[40,2]	-25.76	0.00	0.43	-26.79	-25.98	-25.68	-25.46	-25.15	15506	1
lp[40,3]	-24.78	0.01	0.78	-26.15	-25.29	-24.90	-24.35	-23.02	7689	1
lp[41,1]	-30.48	0.00	0.47	-31.62	-30.73	-30.39	-30.13	-29.84	11013	1
lp[41,2]	-26.77	0.00	0.41	-27.78	-26.97	-26.68	-26.47	-26.22	14946	1
lp[41,3]	-25.20	0.01	0.66	-26.45	-25.61	-25.25	-24.85	-23.72	8339	1
lp[42,1]	-31.19	0.00	0.48	-32.37	-31.45	-31.10	-30.83	-30.53	10953	1
lp[42,2]	-27.72	0.00	0.42	-28.76	-27.94	-27.64	-27.42	-27.15	14425	1
lp[42,3]	-25.69	0.01	0.61	-26.89	-26.06	-25.72	-25.36	-24.35	8818	1
lp[43,1]	-32.00	0.00	0.49	-33.19	-32.26	-31.90	-31.64	-31.34	10885	1
lp[43,2]	-29.16	0.00	0.48	-30.29	-29.42	-29.08	-28.80	-28.48	12251	1
lp[43,3]	-26.45	0.01	0.62	-27.67	-26.83	-26.48	-26.09	-25.11	8703	1
lp[44,1]	-33.19	0.00	0.46	-34.32	-33.44	-33.10	-32.85	-32.56	11578	1
lp[44,2]	-31.87	0.00	0.55	-33.14	-32.19	-31.79	-31.47	-31.02	13158	1
lp[44,3]	-27.88	0.01	0.72	-29.22	-28.35	-27.96	-27.44	-26.35	8635	1
lp[45,1]	-34.90	0.00	0.45	-35.99	-35.14	-34.82	-34.57	-34.29	12589	1
lp[45,2]	-35.42	0.01	0.72	-36.97	-35.87	-35.36	-34.92	-34.20	15757	1
lp[45,3]	-30.02	0.01	0.89	-31.68	-30.61	-30.10	-29.45	-28.16	8974	1

lp[46,1]	-36.04	0.00	0.45	-37.14	-36.28	-35.95	-35.71	-35.41	13141	1
lp[46,2]	-36.79	0.01	0.65	-38.23	-37.19	-36.74	-36.34	-35.66	15064	1
lp[46,3]	-31.38	0.01	1.01	-33.30	-32.05	-31.45	-30.72	-29.33	9165	1
lp[47,1]	-36.19	0.00	0.46	-37.31	-36.44	-36.11	-35.86	-35.57	13020	1
lp[47,2]	-36.23	0.00	0.55	-37.49	-36.54	-36.15	-35.84	-35.35	14683	1
lp[47,3]	-31.55	0.01	1.03	-33.54	-32.24	-31.61	-30.86	-29.47	9203	1
lp[48,1]	-38.63	0.00	0.62	-40.13	-38.98	-38.52	-38.17	-37.75	15719	1
lp[48,2]	-41.51	0.01	1.47	-44.88	-42.38	-41.32	-40.44	-39.21	14241	1
lp[48,3]	-34.82	0.02	1.59	-37.98	-35.88	-34.85	-33.69	-31.83	9450	1
lp[49,1]	-40.05	0.01	0.72	-41.81	-40.46	-39.93	-39.52	-39.02	16328	1
lp[49,2]	-42.02	0.01	1.26	-44.89	-42.77	-41.87	-41.10	-40.02	14961	1
lp[49,3]	-36.69	0.02	1.93	-40.69	-37.96	-36.67	-35.29	-33.20	9577	1
lp[50,1]	-40.44	0.01	0.73	-42.23	-40.84	-40.30	-39.90	-39.42	16279	1
lp[50,2]	-41.01	0.01	1.04	-43.42	-41.62	-40.87	-40.26	-39.41	15832	1
lp[50,3]	-37.16	0.02	2.02	-41.39	-38.49	-37.11	-35.69	-33.58	9661	1
lp[51,1]	-40.60	0.01	0.69	-42.30	-40.97	-40.46	-40.09	-39.65	15898	1
lp[51,2]	-40.19	0.01	0.93	-42.40	-40.72	-40.04	-39.50	-38.81	16086	1
lp[51,3]	-37.19	0.02	1.92	-41.12	-38.47	-37.15	-35.78	-33.76	9744	1
lp[52,1]	-40.43	0.01	0.68	-42.11	-40.79	-40.30	-39.94	-39.52	15244	1
lp[52,2]	-39.81	0.01	0.99	-42.17	-40.38	-39.65	-39.09	-38.35	15750	1
lp[52,3]	-36.90	0.02	1.83	-40.62	-38.15	-36.89	-35.56	-33.59	9784	1
lp[53,1]	-40.81	0.01	0.66	-42.47	-41.15	-40.67	-40.32	-39.93	14783	1
lp[53,2]	-40.15	0.01	1.06	-42.64	-40.76	-39.98	-39.37	-38.59	15609	1
lp[53,3]	-37.19	0.02	1.78	-40.82	-38.39	-37.18	-35.89	-33.96	9884	1
lp[54,1]	-40.87	0.01	0.63	-42.47	-41.20	-40.74	-40.41	-40.05	13972	1
lp[54,2]	-39.86	0.01	1.01	-42.24	-40.44	-39.70	-39.11	-38.38	15618	1
lp[54,3]	-37.10	0.02	1.70	-40.58	-38.22	-37.09	-35.87	-34.03	9991	1
lp[55,1]	-40.87	0.01	0.60	-42.38	-41.17	-40.75	-40.44	-40.09	13102	1
lp[55,2]	-39.43	0.01	0.95	-41.68	-39.97	-39.28	-38.73	-38.06	15564	1
lp[55,3]	-36.88	0.02	1.58	-40.16	-37.90	-36.86	-35.76	-34.04	10114	1
lp[56,1]	-41.65	0.01	0.60	-43.16	-41.95	-41.53	-41.22	-40.87	12977	1
lp[56,2]	-40.58	0.01	1.07	-43.06	-41.20	-40.41	-39.78	-39.00	14180	1
lp[56,3]	-37.62	0.02	1.57	-40.91	-38.63	-37.57	-36.50	-34.81	10074	1
lp[57,1]	-43.24	0.01	0.63	-44.81	-43.56	-43.10	-42.78	-42.43	13276	1
lp[57,2]	-43.83	0.01	1.46	-47.19	-44.70	-43.61	-42.74	-41.63	10405	1
lp[57,3]	-39.58	0.02	1.83	-43.35	-40.78	-39.53	-38.22	-36.37	9158	1
lp[58,1]	-46.26	0.01	0.64	-47.90	-46.56	-46.11	-45.80	-45.46	14623	1
lp[58,2]	-49.59	0.01	1.17	-52.07	-50.34	-49.49	-48.75	-47.55	11474	1
lp[58,3]	-43.49	0.02	2.19	-47.75	-45.03	-43.50	-41.83	-39.55	8648	1
lp[59,1]	-49.36	0.01	0.75	-51.27	-49.70	-49.18	-48.82	-48.43	16532	1
lp[59,2]	-53.46	0.01	1.02	-55.78	-54.05	-53.34	-52.73	-51.79	13512	1
lp[59,3]	-47.56	0.03	2.67	-52.67	-49.53	-47.57	-45.54	-42.74	8511	1
lp[60,1]	-49.76	0.01	0.74	-51.66	-50.10	-49.59	-49.23	-48.84	16204	1
lp[60,2]	-50.04	0.01	0.77	-51.99	-50.40	-49.87	-49.49	-49.05	16351	1
lp[60,3]	-47.94	0.03	2.66	-52.97	-49.91	-47.95	-45.91	-43.13	8487	1
lp[61,1]	-49.33	0.01	0.72	-51.13	-49.67	-49.17	-48.82	-48.40	15066	1
lp[61,2]	-47.84	0.01	0.75	-49.74	-48.19	-47.67	-47.30	-46.89	15961	1
lp[61,3]	-46.72	0.02	2.02	-50.01	-48.28	-47.03	-45.22	-42.63	8403	1
lp[62,1]	-49.38	0.01	0.70	-51.14	-49.72	-49.23	-48.88	-48.47	14242	1
lp[62,2]	-47.11	0.01	0.74	-49.00	-47.47	-46.95	-46.59	-46.17	15646	1
lp[62,3]	-45.98	0.02	1.53	-48.61	-46.99	-46.30	-45.02	-42.63	8614	1
lp[63,1]	-49.23	0.01	0.70	-50.98	-49.59	-49.09	-48.73	-48.28	13387	1
lp[63,2]	-46.20	0.01	0.75	-48.07	-46.56	-46.04	-45.67	-45.23	15133	1
lp[63,3]	-45.16	0.01	1.23	-47.49	-45.89	-45.29	-44.52	-42.39	9416	1
lp[64,1]	-49.25	0.01	0.70	-51.00	-49.62	-49.11	-48.74	-48.28	13170	1
lp[64,2]	-45.49	0.01	0.75	-47.35	-45.86	-45.33	-44.95	-44.49	14824	1
lp[64,3]	-44.53	0.01	1.02	-46.66	-45.10	-44.53	-44.01	-42.31	10757	1
lp[65,1]	-49.33	0.01	0.69	-51.05	-49.70	-49.20	-48.82	-48.38	12901	1
lp[65,2]	-44.84	0.01	0.75	-46.69	-45.21	-44.69	-44.31	-43.82	14668	1
lp[65,3]	-43.97	0.01	0.87	-45.97	-44.44	-43.88	-43.45	-42.27	12664	1
lp[66,1]	-49.71	0.01	0.69	-51.43	-50.07	-49.57	-49.19	-48.76	12761	1
lp[66,2]	-44.81	0.01	0.75	-46.66	-45.18	-44.66	-44.28	-43.79	14634	1
lp[66,3]	-43.78	0.01	0.79	-45.67	-44.18	-43.66	-43.26	-42.48	14396	1
lp[67,1]	-50.10	0.01	0.70	-51.83	-50.47	-49.97	-49.58	-49.14	12669	1
lp[67,2]	-44.85	0.01	0.74	-46.69	-45.22	-44.70	-44.32	-43.83	14606	1
lp[67,3]	-43.67	0.01	0.75	-45.51	-44.05	-43.54	-43.15	-42.59	15219	1
lp[68,1]	-50.81	0.01	0.71	-52.56	-51.18	-50.68	-50.28	-49.85	12647	1
lp[68,2]	-46.31	0.01	0.75	-48.18	-46.68	-46.15	-45.77	-45.31	14104	1
lp[68,3]	-44.21	0.01	0.75	-46.06	-44.59	-44.07	-43.68	-43.14	15511	1
lp[69,1]	-52.81	0.01	0.73	-54.59	-53.21	-52.68	-52.28	-51.81	12590	1
lp[69,2]	-50.90	0.01	0.97	-53.15	-51.46	-50.77	-50.20	-49.44	12713	1
lp[69,3]	-46.67	0.01	0.89	-48.76	-47.16	-46.55	-46.05	-45.24	14026	1
lp[70,1]	-53.30	0.01	0.73	-55.09	-53.69	-53.17	-52.77	-52.30	12580	1
lp[70,2]	-51.59	0.01	0.98	-53.85	-52.17	-51.47	-50.88	-50.07	12824	1
lp[70,3]	-47.14	0.01	0.91	-49.26	-47.63	-47.02	-46.51	-45.70	13946	1
lp[71,1]	-53.97	0.01	0.73	-55.77	-54.36	-53.83	-53.43	-52.96	12549	1
lp[71,2]	-52.59	0.01	1.01	-54.89	-53.20	-52.47	-51.87	-50.98	12867	1

lp[71,3]	-47.84	0.01	0.94	-50.03	-48.35	-47.71	-47.18	-46.35	13753	1
lp[72,1]	-55.21	0.01	0.75	-57.04	-55.61	-55.07	-54.66	-54.16	12453	1
lp[72,2]	-54.99	0.01	1.15	-57.52	-55.69	-54.88	-54.16	-53.08	12898	1
lp[72,3]	-49.34	0.01	1.06	-51.77	-49.93	-49.21	-48.59	-47.62	13171	1
lp[73,1]	-55.11	0.01	0.73	-56.94	-55.50	-54.98	-54.57	-54.11	12441	1
lp[73,2]	-53.59	0.01	0.89	-55.61	-54.10	-53.48	-52.96	-52.16	12638	1
lp[73,3]	-48.98	0.01	0.97	-51.27	-49.51	-48.84	-48.28	-47.46	13494	1
lp[74,1]	-55.71	0.01	0.74	-57.54	-56.10	-55.57	-55.16	-54.69	12490	1
lp[74,2]	-54.83	0.01	0.95	-57.07	-55.37	-54.71	-54.16	-53.33	14527	1
lp[74,3]	-49.70	0.01	1.01	-52.05	-50.27	-49.57	-48.98	-48.05	13394	1
lp[75,1]	-57.90	0.01	0.90	-60.12	-58.38	-57.73	-57.23	-56.66	14316	1
lp[75,2]	-59.99	0.02	1.83	-64.20	-61.06	-59.74	-58.64	-57.13	14575	1
lp[75,3]	-52.67	0.01	1.50	-56.06	-53.54	-52.51	-51.60	-50.17	12363	1
lp[76,1]	-59.54	0.01	1.05	-62.11	-60.10	-59.34	-58.77	-58.11	15379	1
lp[76,2]	-61.97	0.01	1.76	-65.97	-63.01	-61.75	-60.69	-59.19	14740	1
lp[76,3]	-54.90	0.02	1.93	-59.30	-56.05	-54.70	-53.51	-51.74	11808	1
lp[77,1]	-59.30	0.01	0.98	-61.73	-59.81	-59.10	-58.58	-57.97	14761	1
lp[77,2]	-58.76	0.01	1.08	-61.41	-59.35	-58.56	-57.97	-57.25	15464	1
lp[77,3]	-54.46	0.02	1.83	-58.67	-55.53	-54.25	-53.14	-51.52	11998	1
lp[78,1]	-59.15	0.01	0.91	-61.43	-59.62	-58.97	-58.48	-57.93	13938	1
lp[78,2]	-57.77	0.01	1.03	-60.33	-58.32	-57.56	-57.01	-56.36	15172	1
lp[78,3]	-54.10	0.02	1.69	-58.02	-55.09	-53.89	-52.87	-51.40	12281	1
lp[79,1]	-59.26	0.01	0.87	-61.44	-59.71	-59.08	-58.62	-58.11	13306	1
lp[79,2]	-57.57	0.01	1.07	-60.21	-58.14	-57.36	-56.78	-56.13	15018	1
lp[79,3]	-54.05	0.01	1.60	-57.78	-54.99	-53.85	-52.88	-51.52	12515	1
lp[80,1]	-60.47	0.01	0.89	-62.72	-60.92	-60.28	-59.81	-59.29	13596	1
lp[80,2]	-60.07	0.01	1.36	-63.35	-60.82	-59.82	-59.06	-58.17	13020	1
lp[80,3]	-55.51	0.02	1.74	-59.50	-56.56	-55.31	-54.23	-52.72	11733	1
lp[81,1]	-62.75	0.01	0.88	-65.00	-63.18	-62.55	-62.11	-61.62	13713	1
lp[81,2]	-64.65	0.01	1.27	-67.56	-65.41	-64.46	-63.71	-62.70	11996	1
lp[81,3]	-58.43	0.02	1.97	-62.71	-59.68	-58.27	-56.96	-55.15	10678	1
lp[82,1]	-65.19	0.01	0.90	-67.49	-65.62	-64.98	-64.54	-64.05	14676	1
lp[82,2]	-68.06	0.01	1.08	-70.57	-68.68	-67.91	-67.30	-66.38	12970	1
lp[82,3]	-61.56	0.02	2.27	-66.36	-63.07	-61.41	-59.85	-57.71	10014	1
lp[83,1]	-68.17	0.01	1.00	-70.72	-68.63	-67.94	-67.46	-66.93	15996	1
lp[83,2]	-72.10	0.01	1.22	-74.97	-72.77	-71.93	-71.22	-70.20	14439	1
lp[83,3]	-65.48	0.03	2.74	-71.23	-67.37	-65.30	-63.42	-60.78	9660	1
lp[84,1]	-68.18	0.01	0.99	-70.68	-68.64	-67.96	-67.48	-66.94	15446	1
lp[84,2]	-67.72	0.01	1.01	-70.26	-68.18	-67.49	-67.00	-66.48	15941	1
lp[84,3]	-65.27	0.03	2.64	-70.74	-67.10	-65.11	-63.28	-60.74	9790	1
lp[85,1]	-67.82	0.01	0.97	-70.26	-68.28	-67.61	-67.13	-66.56	14381	1
lp[85,2]	-66.06	0.01	1.00	-68.57	-66.52	-65.83	-65.35	-64.78	15237	1
lp[85,3]	-64.24	0.02	2.08	-68.14	-65.79	-64.33	-62.69	-60.31	10047	1
lp[86,1]	-67.48	0.01	0.97	-69.90	-67.98	-67.29	-66.78	-66.16	13530	1
lp[86,2]	-64.69	0.01	1.02	-67.25	-65.18	-64.47	-63.97	-63.35	14394	1
lp[86,3]	-63.25	0.02	1.72	-66.64	-64.37	-63.38	-62.07	-59.87	10658	1
lp[87,1]	-67.63	0.01	0.97	-70.04	-68.13	-67.44	-66.93	-66.31	13383	1
lp[87,2]	-64.18	0.01	1.02	-66.72	-64.67	-63.96	-63.46	-62.83	14264	1
lp[87,3]	-62.82	0.01	1.46	-65.87	-63.68	-62.84	-61.90	-59.94	11529	1
lp[88,1]	-67.57	0.01	0.97	-69.98	-68.08	-67.38	-66.87	-66.25	13278	1
lp[88,2]	-63.16	0.01	1.03	-65.71	-63.67	-62.95	-62.43	-61.76	14077	1
lp[88,3]	-62.13	0.01	1.26	-64.98	-62.83	-62.04	-61.34	-59.78	12899	1
lp[89,1]	-67.64	0.01	0.97	-70.04	-68.14	-67.45	-66.93	-66.33	13275	1
lp[89,2]	-62.30	0.01	1.04	-64.85	-62.81	-62.10	-61.57	-60.85	14281	1
lp[89,3]	-61.52	0.01	1.12	-64.22	-62.12	-61.34	-60.76	-59.68	14677	1
lp[90,1]	-67.82	0.01	0.98	-70.24	-68.33	-67.63	-67.10	-66.49	13197	1
lp[90,2]	-62.03	0.01	1.04	-64.58	-62.55	-61.83	-61.31	-60.57	14251	1
lp[90,3]	-61.09	0.01	1.06	-63.72	-61.64	-60.89	-60.35	-59.57	15360	1
lp[91,1]	-68.33	0.01	0.99	-70.78	-68.85	-68.14	-67.59	-66.98	13188	1
lp[91,2]	-62.57	0.01	1.02	-65.11	-63.07	-62.37	-61.85	-61.17	14386	1
lp[91,3]	-61.18	0.01	1.04	-63.75	-61.71	-60.97	-60.44	-59.73	15375	1
lp[92,1]	-70.84	0.01	1.03	-73.34	-71.40	-70.66	-70.09	-69.40	12766	1
lp[92,2]	-68.42	0.01	1.23	-71.34	-69.12	-68.23	-67.53	-66.62	12227	1
lp[92,3]	-64.23	0.01	1.20	-67.10	-64.89	-64.05	-63.39	-62.38	14026	1
lp[93,1]	-72.23	0.01	1.06	-74.80	-72.81	-72.04	-71.45	-70.73	12525	1
lp[93,2]	-71.23	0.01	1.44	-74.54	-72.08	-71.05	-70.19	-68.99	11926	1
lp[93,3]	-65.89	0.01	1.32	-68.96	-66.63	-65.72	-64.96	-63.80	13449	1
lp[94,1]	-75.39	0.01	1.18	-78.26	-76.04	-75.18	-74.54	-73.73	14558	1
lp[94,2]	-78.89	0.02	1.95	-83.32	-80.05	-78.68	-77.48	-75.75	15020	1
lp[94,3]	-70.24	0.02	1.79	-74.13	-71.35	-70.13	-68.98	-67.10	12163	1
lp[95,1]	-78.07	0.01	1.43	-81.55	-78.85	-77.81	-77.03	-76.04	16133	1
lp[95,2]	-82.25	0.02	2.27	-87.48	-83.58	-81.94	-80.59	-78.75	15209	1
lp[95,3]	-73.94	0.02	2.49	-79.40	-75.50	-73.76	-72.13	-69.67	11399	1
lp[96,1]	-78.78	0.01	1.46	-82.35	-79.58	-78.51	-77.72	-76.72	16169	1
lp[96,2]	-79.76	0.01	1.74	-83.91	-80.74	-79.48	-78.49	-77.22	16210	1
lp[96,3]	-74.83	0.02	2.65	-80.70	-76.47	-74.61	-72.89	-70.36	11352	1
lp[97,1]	-79.52	0.01	1.49	-83.19	-80.33	-79.24	-78.43	-77.43	16208	1

lp[97,2]	-80.22	0.01	1.83	-84.57	-81.26	-79.92	-78.88	-77.52	16196	1
lp[97,3]	-75.71	0.03	2.76	-81.79	-77.45	-75.48	-73.69	-71.08	11404	1
lp[98,1]	-80.73	0.01	1.57	-84.57	-81.58	-80.43	-79.59	-78.54	16284	1
lp[98,2]	-81.87	0.02	2.02	-86.64	-83.05	-81.57	-80.38	-78.83	15953	1
lp[98,3]	-77.20	0.03	2.96	-83.68	-79.08	-76.94	-75.01	-72.25	11393	1
lp[99,1]	-80.73	0.01	1.51	-84.47	-81.54	-80.44	-79.64	-78.65	16089	1
lp[99,2]	-80.13	0.01	1.67	-84.17	-81.05	-79.84	-78.91	-77.72	16327	1
lp[99,3]	-76.99	0.03	2.82	-83.19	-78.79	-76.75	-74.90	-72.27	11568	1
lp[100,1]	-80.39	0.01	1.41	-83.90	-81.13	-80.11	-79.37	-78.49	15562	1
lp[100,2]	-78.48	0.01	1.52	-82.20	-79.29	-78.18	-77.37	-76.36	16187	1
lp[100,3]	-76.17	0.02	2.45	-81.39	-77.76	-76.02	-74.36	-71.97	11942	1
lp[101,1]	-80.10	0.01	1.34	-83.45	-80.80	-79.82	-79.13	-78.30	14912	1
lp[101,2]	-77.50	0.01	1.48	-81.15	-78.29	-77.21	-76.43	-75.47	15859	1
lp[101,3]	-75.43	0.02	2.14	-80.03	-76.79	-75.32	-73.88	-71.69	12481	1
lp[102,1]	-80.66	0.01	1.34	-84.01	-81.35	-80.38	-79.69	-78.86	14865	1
lp[102,2]	-78.58	0.01	1.57	-82.44	-79.43	-78.29	-77.43	-76.38	16236	1
lp[102,3]	-75.85	0.02	2.07	-80.34	-77.13	-75.73	-74.37	-72.23	12707	1
lp[103,1]	-80.77	0.01	1.31	-84.04	-81.43	-80.49	-79.83	-79.03	14493	1
lp[103,2]	-78.65	0.01	1.63	-82.64	-79.53	-78.35	-77.45	-76.37	16166	1
lp[103,3]	-75.79	0.02	2.00	-80.23	-77.01	-75.64	-74.37	-72.34	12964	1
lp[104,1]	-81.64	0.01	1.31	-84.94	-82.31	-81.37	-80.70	-79.91	14422	1
lp[104,2]	-80.01	0.01	1.75	-84.28	-80.98	-79.71	-78.72	-77.52	15761	1
lp[104,3]	-76.66	0.02	2.03	-81.19	-77.90	-76.50	-75.22	-73.20	12907	1
lp[105,1]	-81.93	0.01	1.27	-85.12	-82.58	-81.67	-81.02	-80.21	13890	1
lp[105,2]	-79.89	0.01	1.68	-83.93	-80.82	-79.60	-78.65	-77.50	15785	1
lp[105,3]	-76.76	0.02	1.96	-81.20	-77.93	-76.57	-75.37	-73.49	13248	1
lp[106,1]	-81.75	0.01	1.22	-84.76	-82.38	-81.52	-80.87	-80.06	13178	1
lp[106,2]	-78.62	0.01	1.51	-82.31	-79.44	-78.34	-77.51	-76.50	15843	1
lp[106,3]	-76.19	0.02	1.79	-80.32	-77.22	-75.97	-74.93	-73.29	14094	1
lp[107,1]	-81.72	0.01	1.20	-84.66	-82.35	-81.51	-80.85	-80.02	12598	1
lp[107,2]	-78.05	0.01	1.48	-81.68	-78.85	-77.78	-76.98	-75.98	15660	1
lp[107,3]	-75.84	0.01	1.68	-79.80	-76.80	-75.60	-74.66	-73.20	14679	1
lp[108,1]	-81.55	0.01	1.19	-84.37	-82.19	-81.37	-80.70	-79.82	12045	1
lp[108,2]	-77.01	0.01	1.41	-80.46	-77.77	-76.76	-75.99	-75.02	14932	1
lp[108,3]	-75.24	0.01	1.55	-78.97	-76.10	-74.99	-74.14	-72.91	15265	1
lp[109,1]	-81.42	0.01	1.18	-84.16	-82.07	-81.25	-80.57	-79.62	11795	1
lp[109,2]	-75.94	0.01	1.36	-79.24	-76.66	-75.71	-74.96	-73.98	14189	1
lp[109,3]	-74.61	0.01	1.44	-78.07	-75.38	-74.38	-73.57	-72.49	15331	1
lp[110,1]	-83.86	0.01	1.15	-86.61	-84.48	-83.67	-83.03	-82.19	12274	1
lp[110,2]	-81.46	0.01	1.70	-85.54	-82.41	-81.15	-80.19	-79.07	13462	1
lp[110,3]	-77.54	0.01	1.57	-81.24	-78.42	-77.30	-76.42	-75.12	14368	1
lp[111,1]	-86.35	0.01	1.19	-89.29	-86.97	-86.12	-85.49	-84.71	13110	1
lp[111,2]	-87.15	0.02	2.48	-92.99	-88.64	-86.74	-85.27	-83.50	11734	1
lp[111,3]	-80.81	0.02	2.00	-85.45	-81.98	-80.57	-79.35	-77.68	12052	1
lp[112,1]	-87.01	0.01	1.19	-89.95	-87.63	-86.79	-86.15	-85.36	13002	1
lp[112,2]	-86.85	0.01	1.61	-90.52	-87.79	-86.69	-85.72	-84.21	14545	1
lp[112,3]	-81.53	0.02	2.06	-86.36	-82.73	-81.27	-80.01	-78.34	11884	1
lp[113,1]	-87.25	0.01	1.18	-90.13	-87.87	-87.04	-86.40	-85.59	12648	1
lp[113,2]	-86.13	0.01	1.38	-89.45	-86.89	-85.92	-85.15	-84.04	15123	1
lp[113,3]	-81.61	0.02	1.99	-86.31	-82.75	-81.34	-80.15	-78.57	12120	1
lp[114,1]	-87.69	0.01	1.18	-90.55	-88.31	-87.48	-86.84	-86.01	12432	1
lp[114,2]	-86.40	0.01	1.38	-89.72	-87.15	-86.18	-85.42	-84.35	14739	1
lp[114,3]	-81.98	0.02	1.97	-86.65	-83.11	-81.71	-80.53	-78.98	12175	1
lp[115,1]	-89.10	0.01	1.18	-92.00	-89.72	-88.89	-88.25	-87.45	12680	1
lp[115,2]	-89.13	0.01	1.63	-92.95	-90.05	-88.89	-87.96	-86.61	12712	1
lp[115,3]	-83.71	0.02	2.16	-88.74	-84.98	-83.41	-82.11	-80.44	11280	1
lp[116,1]	-93.23	0.01	1.36	-96.55	-93.95	-92.98	-92.25	-91.30	14171	1
lp[116,2]	-98.45	0.02	2.49	-104.04	-99.94	-98.18	-96.65	-94.37	12940	1
lp[116,3]	-89.32	0.03	2.99	-95.90	-91.19	-88.98	-87.03	-84.63	10072	1
lp[117,1]	-94.44	0.01	1.41	-97.89	-95.18	-94.18	-93.42	-92.45	14468	1
lp[117,2]	-96.04	0.01	1.66	-100.06	-96.95	-95.76	-94.83	-93.66	15449	1
lp[117,3]	-90.87	0.03	3.24	-97.99	-92.88	-90.49	-88.38	-85.81	10043	1
lp[118,1]	-94.17	0.01	1.34	-97.45	-94.87	-93.92	-93.20	-92.28	13956	1
lp[118,2]	-93.14	0.01	1.38	-96.52	-93.86	-92.89	-92.14	-91.20	14479	1
lp[118,3]	-90.23	0.03	2.95	-96.62	-92.14	-89.91	-87.94	-85.57	10071	1
lp[119,1]	-93.85	0.01	1.27	-96.98	-94.52	-93.62	-92.93	-92.06	13404	1
lp[119,2]	-91.66	0.01	1.32	-94.88	-92.34	-91.42	-90.72	-89.81	14036	1
lp[119,3]	-89.30	0.02	2.39	-94.24	-90.96	-89.21	-87.43	-85.28	10132	1
lp[120,1]	-93.63	0.01	1.21	-96.59	-94.27	-93.41	-92.75	-91.93	12856	1
lp[120,2]	-90.60	0.01	1.28	-93.70	-91.26	-90.37	-89.68	-88.79	13729	1
lp[120,3]	-88.54	0.02	2.01	-92.76	-89.85	-88.51	-87.02	-85.07	10404	1
lp[121,1]	-93.35	0.01	1.16	-96.19	-93.96	-93.15	-92.51	-91.72	12292	1
lp[121,2]	-89.48	0.01	1.26	-92.51	-90.13	-89.27	-88.58	-87.69	13429	1
lp[121,3]	-87.73	0.02	1.71	-91.47	-88.76	-87.65	-86.52	-84.77	10975	1
lp[122,1]	-93.08	0.01	1.13	-95.81	-93.67	-92.88	-92.27	-91.50	11807	1
lp[122,2]	-88.59	0.01	1.25	-91.58	-89.25	-88.38	-87.71	-86.79	13178	1
lp[122,3]	-86.96	0.01	1.49	-90.37	-87.80	-86.81	-85.96	-84.46	11895	1

lp[123,1]	-92.86	0.01	1.10	-95.52	-93.44	-92.67	-92.07	-91.32	11430	1
lp[123,2]	-87.84	0.01	1.25	-90.82	-88.49	-87.63	-86.95	-86.02	12971	1
lp[123,3]	-86.28	0.01	1.34	-89.46	-87.00	-86.09	-85.36	-84.16	12980	1
lp[124,1]	-94.22	0.01	1.13	-96.94	-94.81	-94.02	-93.40	-92.62	11634	1
lp[124,2]	-90.85	0.01	1.31	-93.98	-91.55	-90.65	-89.90	-88.94	12759	1
lp[124,3]	-87.74	0.01	1.38	-90.98	-88.49	-87.56	-86.80	-85.51	13372	1
lp[125,1]	-93.92	0.01	1.10	-96.58	-94.49	-93.72	-93.13	-92.38	11309	1
lp[125,2]	-89.61	0.01	1.28	-92.67	-90.29	-89.40	-88.68	-87.75	12781	1
lp[125,3]	-87.07	0.01	1.31	-90.21	-87.76	-86.86	-86.15	-85.08	13603	1
lp[126,1]	-93.64	0.01	1.08	-96.32	-94.20	-93.44	-92.86	-92.15	11049	1
lp[126,2]	-88.38	0.01	1.25	-91.38	-89.05	-88.18	-87.49	-86.58	12862	1
lp[126,3]	-86.37	0.01	1.25	-89.41	-87.02	-86.15	-85.48	-84.62	13946	1
lp[127,1]	-93.73	0.01	1.08	-96.40	-94.29	-93.52	-92.95	-92.25	10857	1
lp[127,2]	-87.96	0.01	1.25	-90.92	-88.62	-87.75	-87.06	-86.15	12888	1
lp[127,3]	-86.10	0.01	1.22	-89.10	-86.72	-85.87	-85.22	-84.43	14139	1
lp[128,1]	-96.20	0.01	1.06	-98.84	-96.73	-95.99	-95.44	-94.78	10835	1
lp[128,2]	-93.46	0.01	1.21	-96.44	-94.06	-93.23	-92.59	-91.79	12934	1
lp[128,3]	-89.11	0.01	1.28	-92.23	-89.77	-88.91	-88.23	-87.18	13136	1
lp[129,1]	-98.53	0.01	1.06	-101.19	-99.04	-98.31	-97.76	-97.14	10869	1
lp[129,2]	-98.51	0.01	1.33	-101.71	-99.23	-98.32	-97.58	-96.50	13087	1
lp[129,3]	-92.06	0.01	1.42	-95.34	-92.84	-91.93	-91.09	-89.67	11676	1
lp[130,1]	-101.17	0.01	1.09	-103.93	-101.69	-100.93	-100.38	-99.78	11350	1
lp[130,2]	-103.74	0.01	1.37	-106.93	-104.50	-103.58	-102.78	-101.53	11874	1
lp[130,3]	-95.47	0.02	1.69	-99.14	-96.50	-95.41	-94.27	-92.49	10442	1
lp[131,1]	-101.27	0.01	1.08	-103.99	-101.80	-101.05	-100.50	-99.88	11048	1
lp[131,2]	-100.57	0.01	1.08	-103.33	-101.08	-100.33	-99.78	-99.18	11339	1
lp[131,3]	-95.33	0.02	1.62	-98.89	-96.29	-95.25	-94.19	-92.52	10643	1
lp[132,1]	-101.45	0.01	1.07	-104.15	-101.98	-101.23	-100.68	-100.05	10861	1
lp[132,2]	-100.10	0.01	1.08	-102.85	-100.62	-99.87	-99.32	-98.71	11210	1
lp[132,3]	-95.34	0.02	1.57	-98.83	-96.27	-95.26	-94.24	-92.65	10768	1
lp[133,1]	-101.79	0.01	1.07	-104.47	-102.31	-101.57	-101.01	-100.38	10719	1
lp[133,2]	-99.77	0.01	1.08	-102.50	-100.30	-99.54	-98.99	-98.38	11149	1
lp[133,3]	-95.46	0.01	1.50	-98.83	-96.34	-95.36	-94.41	-92.92	10980	1
lp[134,1]	-101.67	0.01	1.08	-104.36	-102.21	-101.45	-100.89	-100.23	10688	1
lp[134,2]	-98.85	0.01	1.08	-101.57	-99.38	-98.63	-98.08	-97.44	11153	1
lp[134,3]	-95.06	0.01	1.42	-98.33	-95.87	-94.93	-94.07	-92.71	11380	1
lp[135,1]	-101.74	0.01	1.09	-104.47	-102.29	-101.52	-100.94	-100.26	10707	1
lp[135,2]	-98.14	0.01	1.08	-100.85	-98.68	-97.92	-97.36	-96.71	11193	1
lp[135,3]	-94.82	0.01	1.34	-97.96	-95.55	-94.67	-93.89	-92.66	11801	1
lp[136,1]	-102.30	0.01	1.10	-105.04	-102.86	-102.08	-101.50	-100.81	10682	1
lp[136,2]	-99.19	0.01	1.07	-101.92	-99.71	-98.97	-98.42	-97.81	10955	1
lp[136,3]	-95.38	0.01	1.34	-98.52	-96.12	-95.23	-94.45	-93.21	11628	1
lp[137,1]	-102.54	0.01	1.12	-105.32	-103.11	-102.32	-101.73	-101.02	10705	1
lp[137,2]	-98.76	0.01	1.08	-101.48	-99.29	-98.54	-97.99	-97.37	10969	1
lp[137,3]	-95.34	0.01	1.28	-98.38	-96.03	-95.17	-94.46	-93.34	11947	1
lp[138,1]	-102.71	0.01	1.14	-105.54	-103.30	-102.48	-101.88	-101.15	10801	1
lp[138,2]	-98.29	0.01	1.08	-101.01	-98.82	-98.07	-97.51	-96.88	11033	1
lp[138,3]	-95.22	0.01	1.23	-98.21	-95.85	-95.02	-94.37	-93.37	12321	1
lp[139,1]	-102.65	0.01	1.18	-105.53	-103.27	-102.42	-101.80	-101.04	10969	1
lp[139,2]	-97.64	0.01	1.08	-100.36	-98.17	-97.42	-96.86	-96.21	11093	1
lp[139,3]	-94.87	0.01	1.19	-97.82	-95.48	-94.66	-94.04	-93.15	12626	1
lp[140,1]	-102.50	0.01	1.19	-105.43	-103.12	-102.26	-101.63	-100.88	10851	1
lp[140,2]	-96.83	0.01	1.08	-99.55	-97.36	-96.61	-96.05	-95.40	11056	1
lp[140,3]	-94.40	0.01	1.15	-97.26	-94.97	-94.17	-93.58	-92.82	12625	1
lp[141,1]	-101.96	0.01	1.22	-104.98	-102.60	-101.72	-101.06	-100.29	10921	1
lp[141,2]	-95.70	0.01	1.08	-98.40	-96.23	-95.48	-94.93	-94.28	11027	1
lp[141,3]	-93.52	0.01	1.12	-96.34	-94.08	-93.30	-92.72	-92.03	12507	1
lp[142,1]	-101.32	0.01	1.27	-104.47	-101.99	-101.07	-100.39	-99.57	11060	1
lp[142,2]	-94.21	0.01	1.08	-96.92	-94.75	-93.99	-93.44	-92.76	11035	1
lp[142,3]	-92.46	0.01	1.11	-95.27	-93.02	-92.24	-91.66	-90.98	12237	1
lp[143,1]	-100.65	0.01	1.34	-103.93	-101.37	-100.41	-99.67	-98.79	11280	1
lp[143,2]	-92.64	0.01	1.09	-95.36	-93.18	-92.43	-91.87	-91.13	11121	1
lp[143,3]	-91.31	0.01	1.12	-94.07	-91.89	-91.10	-90.51	-89.73	11941	1
lp[144,1]	-100.68	0.01	1.37	-104.03	-101.42	-100.42	-99.68	-98.79	11075	1
lp[144,2]	-92.07	0.01	1.09	-94.78	-92.61	-91.86	-91.29	-90.55	11169	1
lp[144,3]	-90.85	0.01	1.11	-93.58	-91.41	-90.64	-90.06	-89.27	11731	1
lp[145,1]	-101.26	0.01	1.39	-104.65	-102.00	-100.99	-100.25	-99.36	10965	1
lp[145,2]	-92.82	0.01	1.10	-95.55	-93.38	-92.61	-92.05	-91.31	10978	1
lp[145,3]	-91.11	0.01	1.10	-93.83	-91.67	-90.91	-90.34	-89.57	11529	1
lp[146,1]	-101.65	0.01	1.40	-105.08	-102.41	-101.38	-100.63	-99.73	10957	1
lp[146,2]	-93.56	0.01	1.09	-96.28	-94.11	-93.34	-92.78	-92.09	10927	1
lp[146,3]	-91.33	0.01	1.09	-94.05	-91.88	-91.12	-90.56	-89.81	11406	1
lp[147,1]	-101.81	0.01	1.44	-105.34	-102.58	-101.53	-100.75	-99.85	10866	1
lp[147,2]	-93.45	0.01	1.09	-96.16	-94.00	-93.23	-92.67	-91.97	10927	1
lp[147,3]	-91.22	0.01	1.09	-93.93	-91.77	-91.01	-90.45	-89.69	11309	1
lp[148,1]	-101.40	0.01	1.51	-105.08	-102.21	-101.11	-100.30	-99.32	11012	1
lp[148,2]	-92.35	0.01	1.10	-95.07	-92.92	-92.13	-91.57	-90.85	10917	1

lp[148,3]	-90.45	0.01	1.12	-93.19	-91.02	-90.26	-89.67	-88.81	11255	1
lp[149,1]	-101.31	0.01	1.56	-105.11	-102.16	-101.01	-100.16	-99.16	10909	1
lp[149,2]	-91.66	0.01	1.10	-94.38	-92.21	-91.44	-90.88	-90.14	10939	1
lp[149,3]	-89.97	0.01	1.13	-92.72	-90.55	-89.78	-89.18	-88.28	11144	1
lp[150,1]	-102.55	0.01	1.54	-106.28	-103.37	-102.25	-101.42	-100.43	10961	1
lp[150,2]	-94.32	0.01	1.14	-97.12	-94.91	-94.10	-93.49	-92.75	11045	1
lp[150,3]	-91.30	0.01	1.10	-94.04	-91.86	-91.08	-90.52	-89.75	11098	1
lp[151,1]	-102.75	0.01	1.56	-106.56	-103.60	-102.45	-101.61	-100.60	10948	1
lp[151,2]	-94.61	0.01	1.15	-97.44	-95.21	-94.40	-93.78	-93.03	11137	1
lp[151,3]	-91.39	0.01	1.10	-94.13	-91.95	-91.17	-90.61	-89.83	11057	1
lp[152,1]	-103.12	0.02	1.60	-107.01	-103.99	-102.81	-101.95	-100.92	11034	1
lp[152,2]	-94.74	0.01	1.15	-97.56	-95.34	-94.52	-93.90	-93.15	11147	1
lp[152,3]	-91.56	0.01	1.11	-94.31	-92.13	-91.35	-90.78	-89.98	10944	1
lp[153,1]	-103.78	0.02	1.62	-107.73	-104.65	-103.46	-102.59	-101.55	11077	1
lp[153,2]	-95.60	0.01	1.15	-98.42	-96.19	-95.38	-94.76	-94.01	11198	1
lp[153,3]	-92.14	0.01	1.11	-94.87	-92.71	-91.93	-91.36	-90.56	10895	1
lp[154,1]	-104.45	0.02	1.64	-108.44	-105.33	-104.13	-103.24	-102.20	11118	1
lp[154,2]	-96.62	0.01	1.15	-99.46	-97.21	-96.41	-95.79	-95.02	11262	1
lp[154,3]	-92.77	0.01	1.10	-95.50	-93.34	-92.56	-91.99	-91.23	10858	1
lp[155,1]	-104.56	0.02	1.69	-108.67	-105.47	-104.23	-103.32	-102.23	11326	1
lp[155,2]	-96.41	0.01	1.15	-99.24	-97.00	-96.20	-95.58	-94.81	11248	1
lp[155,3]	-92.69	0.01	1.12	-95.44	-93.28	-92.49	-91.90	-91.09	10715	1
lp[156,1]	-104.79	0.02	1.74	-109.01	-105.73	-104.45	-103.51	-102.38	11441	1
lp[156,2]	-96.32	0.01	1.15	-99.16	-96.92	-96.11	-95.49	-94.72	11249	1
lp[156,3]	-92.72	0.01	1.14	-95.50	-93.33	-92.53	-91.92	-91.07	10590	1
lp[157,1]	-105.04	0.02	1.77	-109.35	-106.00	-104.70	-103.74	-102.58	11544	1
lp[157,2]	-96.58	0.01	1.16	-99.43	-97.17	-96.36	-95.74	-94.96	11277	1
lp[157,3]	-92.86	0.01	1.15	-95.65	-93.47	-92.66	-92.05	-91.19	10505	1
lp[158,1]	-105.07	0.02	1.84	-109.54	-106.07	-104.72	-103.72	-102.52	11651	1
lp[158,2]	-95.85	0.01	1.15	-98.68	-96.44	-95.64	-95.03	-94.27	11208	1
lp[158,3]	-92.58	0.01	1.18	-95.41	-93.22	-92.39	-91.74	-90.80	10343	1
lp[159,1]	-104.94	0.02	1.92	-109.59	-105.98	-104.57	-103.52	-102.26	11853	1
lp[159,2]	-94.85	0.01	1.14	-97.67	-95.44	-94.64	-94.02	-93.27	11155	1
lp[159,3]	-92.08	0.01	1.23	-94.98	-92.78	-91.92	-91.20	-90.16	10195	1
lp[160,1]	-104.93	0.02	1.99	-109.78	-106.02	-104.56	-103.46	-102.15	11944	1
lp[160,2]	-93.96	0.01	1.14	-96.75	-94.55	-93.74	-93.14	-92.41	11122	1
lp[160,3]	-91.69	0.01	1.28	-94.62	-92.43	-91.55	-90.78	-89.64	10095	1
lp[161,1]	-104.77	0.02	2.07	-109.81	-105.92	-104.40	-103.24	-101.85	12227	1
lp[161,2]	-93.07	0.01	1.15	-95.88	-93.67	-92.86	-92.24	-91.49	11109	1
lp[161,3]	-91.13	0.01	1.32	-94.12	-91.91	-91.00	-90.19	-88.97	9992	1
lp[162,1]	-104.85	0.02	2.13	-110.01	-106.03	-104.47	-103.28	-101.83	12468	1
lp[162,2]	-92.95	0.01	1.14	-95.76	-93.55	-92.73	-92.12	-91.38	11086	1
lp[162,3]	-90.91	0.01	1.31	-93.89	-91.67	-90.77	-89.98	-88.77	10077	1
lp[163,1]	-105.55	0.02	2.15	-110.76	-106.74	-105.17	-103.96	-102.51	12508	1
lp[163,2]	-93.94	0.01	1.15	-96.77	-94.53	-93.73	-93.11	-92.36	11113	1
lp[163,3]	-91.45	0.01	1.27	-94.38	-92.17	-91.29	-90.55	-89.44	10231	1
lp[164,1]	-105.60	0.02	2.20	-110.94	-106.81	-105.21	-103.97	-102.49	12344	1
lp[164,2]	-93.63	0.01	1.15	-96.46	-94.22	-93.42	-92.80	-92.05	11100	1
lp[164,3]	-91.22	0.01	1.26	-94.14	-91.94	-91.07	-90.34	-89.21	10226	1
lp[165,1]	-106.10	0.02	2.20	-111.43	-107.31	-105.71	-104.48	-103.00	12349	1
lp[165,2]	-94.86	0.01	1.17	-97.71	-95.48	-94.65	-94.01	-93.23	11409	1
lp[165,3]	-91.72	0.01	1.22	-94.60	-92.40	-91.55	-90.86	-89.85	10433	1
lp[166,1]	-105.59	0.02	2.29	-111.11	-106.85	-105.17	-103.89	-102.33	12342	1
lp[166,2]	-93.45	0.01	1.15	-96.28	-94.05	-93.24	-92.61	-91.85	11242	1
lp[166,3]	-90.83	0.01	1.26	-93.77	-91.55	-90.67	-89.95	-88.83	10233	1
lp[167,1]	-105.14	0.02	2.37	-110.85	-106.46	-104.72	-103.38	-101.72	12445	1
lp[167,2]	-92.31	0.01	1.15	-95.15	-92.91	-92.10	-91.48	-90.72	11159	1
lp[167,3]	-90.03	0.01	1.29	-93.00	-90.78	-89.89	-89.13	-87.94	10123	1
lp[168,1]	-104.97	0.02	2.44	-110.82	-106.35	-104.56	-103.17	-101.45	12451	1
lp[168,2]	-91.77	0.01	1.15	-94.61	-92.37	-91.56	-90.94	-90.18	11153	1
lp[168,3]	-89.57	0.01	1.29	-92.54	-90.31	-89.43	-88.67	-87.46	10123	1
lp[169,1]	-104.67	0.02	2.52	-110.70	-106.09	-104.24	-102.80	-101.01	12449	1
lp[169,2]	-90.83	0.01	1.14	-93.65	-91.42	-90.62	-90.00	-89.25	11077	1
lp[169,3]	-88.88	0.01	1.30	-91.85	-89.64	-88.75	-87.98	-86.71	10079	1
lp[170,1]	-104.29	0.02	2.60	-110.50	-105.76	-103.86	-102.37	-100.50	12561	1
lp[170,2]	-89.91	0.01	1.14	-92.72	-90.50	-89.70	-89.08	-88.33	11037	1
lp[170,3]	-88.12	0.01	1.31	-91.11	-88.88	-87.99	-87.21	-85.92	10101	1
lp[171,1]	-104.11	0.02	2.67	-110.46	-105.63	-103.66	-102.14	-100.20	12551	1
lp[171,2]	-89.24	0.01	1.14	-92.05	-89.83	-89.02	-88.41	-87.67	11006	1
lp[171,3]	-87.54	0.01	1.30	-90.53	-88.30	-87.41	-86.64	-85.35	10134	1
lp[172,1]	-103.70	0.02	2.77	-110.28	-105.28	-103.24	-101.66	-99.64	12503	1
lp[172,2]	-87.93	0.01	1.13	-90.74	-88.51	-87.71	-87.11	-86.37	10888	1
lp[172,3]	-86.61	0.01	1.31	-89.61	-87.38	-86.49	-85.72	-84.36	10086	1
lp[173,1]	-103.29	0.03	2.87	-110.07	-104.93	-102.82	-101.18	-99.05	12457	1
lp[173,2]	-86.61	0.01	1.13	-89.41	-87.19	-86.39	-85.80	-85.07	10796	1
lp[173,3]	-85.60	0.01	1.31	-88.57	-86.36	-85.49	-84.72	-83.34	10095	1
lp[174,1]	-103.17	0.03	2.95	-110.11	-104.85	-102.70	-100.99	-98.80	12284	1

lp[174,2]	-85.80	0.01	1.12	-88.60	-86.37	-85.58	-84.99	-84.27	10718	1
lp[174,3]	-84.86	0.01	1.27	-87.77	-85.58	-84.73	-84.01	-82.70	10141	1
lp[175,1]	-103.90	0.03	2.95	-110.86	-105.58	-103.43	-101.72	-99.55	12268	1
lp[175,2]	-87.20	0.01	1.14	-90.04	-87.79	-86.98	-86.37	-85.62	10883	1
lp[175,3]	-85.31	0.01	1.19	-88.15	-85.95	-85.13	-84.49	-83.44	10500	1
lp[176,1]	-104.11	0.03	3.00	-111.17	-105.83	-103.63	-101.90	-99.68	12432	1
lp[176,2]	-87.38	0.01	1.14	-90.20	-87.96	-87.16	-86.55	-85.82	10796	1
lp[176,3]	-85.27	0.01	1.19	-88.13	-85.91	-85.09	-84.44	-83.44	10536	1
lp[177,1]	-104.74	0.03	3.02	-111.86	-106.47	-104.25	-102.51	-100.27	12446	1
lp[177,2]	-88.13	0.01	1.15	-90.97	-88.73	-87.91	-87.30	-86.56	10844	1
lp[177,3]	-85.72	0.01	1.18	-88.57	-86.36	-85.54	-84.90	-83.94	10567	1
lp[178,1]	-104.99	0.03	3.08	-112.26	-106.76	-104.50	-102.71	-100.43	12498	1
lp[178,2]	-87.96	0.01	1.14	-90.80	-88.55	-87.74	-87.13	-86.38	10840	1
lp[178,3]	-85.68	0.01	1.19	-88.54	-86.33	-85.50	-84.85	-83.84	10445	1
lp[179,1]	-105.20	0.03	3.14	-112.61	-107.01	-104.71	-102.87	-100.54	12600	1
lp[179,2]	-87.75	0.01	1.15	-90.59	-88.35	-87.53	-86.92	-86.18	10840	1
lp[179,3]	-85.59	0.01	1.21	-88.46	-86.25	-85.42	-84.75	-83.70	10364	1
lp[180,1]	-105.07	0.03	3.23	-112.66	-106.94	-104.57	-102.67	-100.25	12752	1
lp[180,2]	-86.68	0.01	1.15	-89.52	-87.27	-86.46	-85.84	-85.09	10849	1
lp[180,3]	-85.01	0.01	1.26	-87.95	-85.72	-84.85	-84.14	-82.98	10174	1
lp[181,1]	-105.01	0.03	3.31	-112.79	-106.93	-104.50	-102.55	-100.05	12844	1
lp[181,2]	-85.87	0.01	1.15	-88.72	-86.47	-85.65	-85.04	-84.28	10836	1
lp[181,3]	-84.48	0.01	1.28	-87.45	-85.21	-84.33	-83.60	-82.37	10078	1
lp[182,1]	-105.15	0.03	3.38	-113.08	-107.13	-104.63	-102.64	-100.06	12822	1
lp[182,2]	-85.32	0.01	1.15	-88.19	-85.92	-85.10	-84.48	-83.73	10827	1
lp[182,3]	-84.10	0.01	1.28	-87.09	-84.82	-83.95	-83.22	-81.97	10044	1
lp[183,1]	-105.25	0.03	3.46	-113.38	-107.29	-104.73	-102.68	-100.01	12824	1
lp[183,2]	-84.58	0.01	1.16	-87.46	-85.18	-84.36	-83.74	-82.97	10881	1
lp[183,3]	-83.61	0.01	1.29	-86.61	-84.34	-83.47	-82.73	-81.45	10041	1
lp[184,1]	-105.13	0.03	3.55	-113.45	-107.23	-104.60	-102.50	-99.73	13009	1
lp[184,2]	-83.63	0.01	1.18	-86.53	-84.26	-83.42	-82.78	-81.97	10968	1
lp[184,3]	-82.84	0.01	1.30	-85.86	-83.57	-82.69	-81.95	-80.66	10104	1
lp[185,1]	-105.14	0.03	3.63	-113.61	-107.29	-104.61	-102.46	-99.61	13177	1
lp[185,2]	-83.08	0.01	1.19	-85.98	-83.71	-82.86	-82.22	-81.39	11007	1
lp[185,3]	-82.21	0.01	1.29	-85.21	-82.94	-82.05	-81.32	-80.10	10256	1
lp[186,1]	-105.41	0.03	3.68	-114.00	-107.59	-104.87	-102.69	-99.78	13273	1
lp[186,2]	-83.10	0.01	1.19	-86.01	-83.73	-82.89	-82.25	-81.42	10993	1
lp[186,3]	-81.96	0.01	1.27	-84.94	-82.67	-81.78	-81.06	-79.94	10445	1
lp[187,1]	-105.89	0.03	3.72	-114.56	-108.10	-105.34	-103.15	-100.21	13323	1
lp[187,2]	-83.64	0.01	1.17	-86.53	-84.25	-83.41	-82.78	-81.99	10932	1
lp[187,3]	-82.07	0.01	1.25	-85.05	-82.76	-81.88	-81.18	-80.15	10612	1
lp[188,1]	-106.10	0.03	3.75	-114.85	-108.33	-105.55	-103.32	-100.35	13298	1
lp[188,2]	-83.93	0.01	1.18	-86.82	-84.54	-83.71	-83.08	-82.28	11008	1
lp[188,3]	-82.01	0.01	1.23	-84.98	-82.68	-81.82	-81.13	-80.15	10693	1
lp[189,1]	-106.17	0.03	3.78	-114.98	-108.41	-105.61	-103.38	-100.39	13346	1
lp[189,2]	-84.29	0.01	1.18	-87.18	-84.91	-84.07	-83.44	-82.65	11140	1
lp[189,3]	-81.92	0.01	1.22	-84.86	-82.59	-81.73	-81.05	-80.11	10785	1
lp[190,1]	-106.94	0.03	3.76	-115.73	-109.16	-106.38	-104.16	-101.21	13345	1
lp[190,2]	-85.97	0.01	1.21	-88.91	-86.62	-85.76	-85.09	-84.26	11494	1
lp[190,3]	-82.74	0.01	1.20	-85.67	-83.39	-82.53	-81.87	-81.01	11059	1
lp[191,1]	-107.54	0.03	3.76	-116.33	-109.76	-106.98	-104.76	-101.81	13348	1
lp[191,2]	-87.11	0.01	1.27	-90.17	-87.79	-86.89	-86.18	-85.30	11514	1
lp[191,3]	-83.36	0.01	1.21	-86.28	-84.00	-83.14	-82.48	-81.63	11131	1
lp[192,1]	-107.22	0.03	3.77	-116.03	-109.44	-106.65	-104.43	-101.48	13479	1
lp[192,2]	-85.85	0.01	1.23	-88.85	-86.52	-85.64	-84.95	-84.11	11453	1
lp[192,3]	-82.68	0.01	1.21	-85.62	-83.33	-82.48	-81.80	-80.89	10605	1
lp[193,1]	-107.30	0.03	3.81	-116.21	-109.55	-106.74	-104.49	-101.51	13490	1
lp[193,2]	-85.95	0.01	1.25	-88.97	-86.63	-85.74	-85.04	-84.17	11584	1
lp[193,3]	-82.63	0.01	1.21	-85.57	-83.29	-82.43	-81.76	-80.84	10569	1
lp[194,1]	-108.40	0.03	3.79	-117.27	-110.63	-107.83	-105.60	-102.65	13518	1
lp[194,2]	-88.09	0.01	1.34	-91.26	-88.84	-87.88	-87.11	-86.14	12058	1
lp[194,3]	-83.87	0.01	1.22	-86.83	-84.52	-83.66	-82.99	-82.12	10881	1
lp[195,1]	-108.90	0.03	3.80	-117.79	-111.13	-108.32	-106.09	-103.14	13506	1
lp[195,2]	-89.08	0.01	1.39	-92.34	-89.87	-88.86	-88.06	-87.02	12392	1
lp[195,3]	-84.38	0.01	1.22	-87.34	-85.03	-84.17	-83.50	-82.64	10995	1
lp[196,1]	-108.94	0.03	3.87	-118.00	-111.22	-108.36	-106.08	-103.07	13352	1
lp[196,2]	-88.55	0.01	1.37	-91.78	-89.33	-88.34	-87.55	-86.53	12308	1
lp[196,3]	-84.18	0.01	1.21	-87.12	-84.82	-83.96	-83.30	-82.42	10729	1
lp[197,1]	-109.26	0.03	3.92	-118.43	-111.57	-108.66	-106.37	-103.33	13261	1
lp[197,2]	-88.81	0.01	1.39	-92.10	-89.60	-88.59	-87.79	-86.75	12399	1
lp[197,3]	-84.37	0.01	1.21	-87.31	-85.02	-84.16	-83.50	-82.60	10643	1
lp[198,1]	-108.89	0.03	4.02	-118.27	-111.26	-108.28	-105.93	-102.79	13231	1
lp[198,2]	-87.59	0.01	1.36	-90.81	-88.36	-87.38	-86.59	-85.60	12201	1
lp[198,3]	-83.68	0.01	1.23	-86.62	-84.35	-83.49	-82.80	-81.82	10296	1
lp[199,1]	-109.48	0.04	4.03	-118.91	-111.85	-108.87	-106.50	-103.35	13200	1
lp[199,2]	-88.54	0.01	1.42	-91.86	-89.34	-88.32	-87.50	-86.44	12412	1
lp[199,3]	-84.25	0.01	1.23	-87.20	-84.91	-84.05	-83.37	-82.41	10367	1

lp[200,1]	-109.65	0.04	4.11	-119.22	-112.07	-109.04	-106.61	-103.37	13285	1
lp[200,2]	-88.00	0.01	1.42	-91.33	-88.81	-87.78	-86.96	-85.91	12424	1
lp[200,3]	-84.13	0.01	1.27	-87.13	-84.84	-83.95	-83.23	-82.17	10172	1
lp[201,1]	-109.91	0.04	4.16	-119.56	-112.35	-109.29	-106.83	-103.53	13421	1
lp[201,2]	-88.08	0.01	1.42	-91.41	-88.88	-87.86	-87.04	-85.99	12426	1
lp[201,3]	-84.22	0.01	1.29	-87.26	-84.95	-84.04	-83.30	-82.22	10105	1
lp[202,1]	-110.25	0.04	4.22	-120.04	-112.74	-109.63	-107.13	-103.76	13472	1
lp[202,2]	-88.01	0.01	1.42	-91.34	-88.82	-87.79	-86.97	-85.92	12425	1
lp[202,3]	-84.34	0.01	1.32	-87.43	-85.10	-84.17	-83.40	-82.26	10002	1
lp[203,1]	-109.97	0.04	4.29	-119.90	-112.51	-109.35	-106.81	-103.34	13802	1
lp[203,2]	-87.41	0.01	1.42	-90.74	-88.22	-87.18	-86.36	-85.29	12355	1
lp[203,3]	-83.86	0.01	1.37	-87.02	-84.66	-83.69	-82.87	-81.68	9879	1
lp[204,1]	-109.30	0.04	4.41	-119.51	-111.92	-108.70	-106.05	-102.41	14335	1
lp[204,2]	-85.79	0.01	1.47	-89.23	-86.63	-85.56	-84.71	-83.61	12153	1
lp[204,3]	-82.81	0.02	1.50	-86.17	-83.73	-82.65	-81.74	-80.37	9614	1
lp[205,1]	-108.63	0.04	4.54	-119.09	-111.34	-108.04	-105.31	-101.47	14827	1
lp[205,2]	-84.17	0.01	1.53	-87.75	-85.06	-83.95	-83.04	-81.87	11791	1
lp[205,3]	-81.74	0.02	1.64	-85.35	-82.77	-81.59	-80.56	-79.01	9464	1
lp[206,1]	-109.10	0.04	4.58	-119.67	-111.82	-108.51	-105.74	-101.86	14863	1
lp[206,2]	-84.52	0.01	1.53	-88.10	-85.41	-84.30	-83.40	-82.22	11828	1
lp[206,3]	-81.97	0.02	1.63	-85.56	-82.98	-81.82	-80.80	-79.27	9591	1
lp[207,1]	-109.14	0.04	4.66	-119.85	-111.92	-108.54	-105.73	-101.75	14985	1
lp[207,2]	-83.99	0.01	1.54	-87.58	-84.89	-83.76	-82.86	-81.68	11774	1
lp[207,3]	-81.68	0.02	1.67	-85.36	-82.72	-81.53	-80.47	-78.89	9588	1
lp[208,1]	-109.53	0.04	4.71	-120.34	-112.34	-108.94	-106.09	-102.06	15037	1
lp[208,2]	-84.20	0.01	1.54	-87.78	-85.09	-83.97	-83.07	-81.88	11807	1
lp[208,3]	-81.81	0.02	1.67	-85.49	-82.84	-81.65	-80.60	-79.04	9702	1
lp[209,1]	-109.85	0.04	4.77	-120.78	-112.70	-109.25	-106.36	-102.25	15035	1
lp[209,2]	-84.04	0.01	1.54	-87.62	-84.93	-83.81	-82.90	-81.72	11811	1
lp[209,3]	-81.80	0.02	1.68	-85.50	-82.83	-81.64	-80.59	-78.99	9740	1
lp[210,1]	-109.59	0.04	4.87	-120.71	-112.51	-108.99	-106.04	-101.80	15218	1
lp[210,2]	-82.93	0.01	1.57	-86.59	-83.85	-82.70	-81.78	-80.57	11688	1
lp[210,3]	-81.10	0.02	1.75	-84.95	-82.19	-80.95	-79.84	-78.15	9704	1
lp[211,1]	-109.78	0.04	4.94	-121.06	-112.74	-109.18	-106.18	-101.86	15251	1
lp[211,2]	-82.60	0.01	1.57	-86.27	-83.52	-82.37	-81.45	-80.24	11685	1
lp[211,3]	-80.88	0.02	1.75	-84.75	-81.96	-80.73	-79.63	-77.93	9827	1
lp[212,1]	-110.45	0.04	4.92	-121.71	-113.39	-109.84	-106.86	-102.60	15249	1
lp[212,2]	-84.24	0.01	1.62	-88.01	-85.20	-84.02	-83.06	-81.77	12199	1
lp[212,3]	-81.51	0.02	1.67	-85.30	-82.50	-81.33	-80.29	-78.80	10339	1
lp[213,1]	-110.24	0.04	5.00	-121.67	-113.25	-109.62	-106.59	-102.24	15134	1
lp[213,2]	-83.30	0.01	1.59	-86.99	-84.23	-83.07	-82.13	-80.89	12122	1
lp[213,3]	-80.94	0.02	1.67	-84.70	-81.95	-80.77	-79.74	-78.18	10180	1
lp[214,1]	-109.93	0.04	5.09	-121.57	-113.00	-109.30	-106.21	-101.77	15029	1
lp[214,2]	-82.13	0.01	1.56	-85.76	-83.04	-81.90	-80.99	-79.80	12009	1
lp[214,3]	-80.21	0.02	1.68	-83.95	-81.22	-80.04	-79.01	-77.39	10054	1
lp[215,1]	-109.56	0.04	5.19	-121.42	-112.70	-108.93	-105.77	-101.23	14995	1
lp[215,2]	-80.97	0.01	1.54	-84.58	-81.87	-80.75	-79.84	-78.68	11853	1
lp[215,3]	-79.38	0.02	1.68	-83.11	-80.40	-79.22	-78.19	-76.53	10010	1
lp[216,1]	-109.26	0.04	5.28	-121.32	-112.47	-108.62	-105.39	-100.76	14896	1
lp[216,2]	-79.85	0.01	1.51	-83.39	-80.72	-79.62	-78.74	-77.60	11758	1
lp[216,3]	-78.55	0.02	1.67	-82.25	-79.56	-78.40	-77.38	-75.72	10032	1
lp[217,1]	-110.24	0.04	5.24	-122.24	-113.42	-109.60	-106.40	-101.85	14902	1
lp[217,2]	-82.12	0.01	1.58	-85.84	-83.04	-81.88	-80.96	-79.73	12343	1
lp[217,3]	-79.49	0.02	1.57	-83.13	-80.42	-79.30	-78.36	-76.97	10738	1
lp[218,1]	-112.12	0.04	5.10	-123.85	-115.18	-111.47	-108.40	-104.03	14894	1
lp[218,2]	-86.76	0.02	1.78	-90.90	-87.83	-86.52	-85.44	-83.97	13633	1
lp[218,3]	-81.91	0.01	1.54	-85.54	-82.81	-81.69	-80.78	-79.58	11907	1
lp[219,1]	-111.98	0.04	5.17	-123.85	-115.10	-111.32	-108.21	-103.79	14896	1
lp[219,2]	-86.24	0.02	1.78	-90.37	-87.31	-86.00	-84.92	-83.46	13610	1
lp[219,3]	-81.57	0.01	1.54	-85.20	-82.46	-81.35	-80.44	-79.23	11651	1
lp[220,1]	-111.60	0.04	5.26	-123.70	-114.78	-110.95	-107.75	-103.24	14916	1
lp[220,2]	-85.15	0.02	1.75	-89.23	-86.20	-84.91	-83.86	-82.42	13436	1
lp[220,3]	-80.91	0.01	1.55	-84.54	-81.81	-80.70	-79.78	-78.54	11261	1
lp[221,1]	-112.15	0.04	5.27	-124.29	-115.34	-111.49	-108.30	-103.79	14908	1
lp[221,2]	-86.25	0.02	1.83	-90.48	-87.35	-86.01	-84.90	-83.39	13757	1
lp[221,3]	-81.49	0.01	1.55	-85.14	-82.39	-81.28	-80.36	-79.14	11421	1
lp[222,1]	-112.60	0.04	5.30	-124.79	-115.80	-111.93	-108.71	-104.19	14847	1
lp[222,2]	-86.81	0.02	1.87	-91.14	-87.93	-86.56	-85.42	-83.86	13852	1
lp[222,3]	-81.86	0.01	1.55	-85.51	-82.76	-81.65	-80.73	-79.50	11403	1
lp[223,1]	-113.46	0.04	5.29	-125.65	-116.66	-112.79	-109.58	-105.08	14848	1
lp[223,2]	-88.47	0.02	1.99	-93.07	-89.67	-88.23	-87.00	-85.33	14125	1
lp[223,3]	-82.83	0.01	1.56	-86.50	-83.73	-82.61	-81.69	-80.47	11630	1
lp[224,1]	-114.09	0.04	5.31	-126.32	-117.30	-113.41	-110.20	-105.68	14875	1
lp[224,2]	-89.44	0.02	1.99	-94.02	-90.63	-89.19	-87.97	-86.30	14305	1
lp[224,3]	-83.45	0.01	1.55	-87.11	-84.35	-83.23	-82.31	-81.11	11668	1
lp[225,1]	-114.54	0.04	5.35	-126.87	-117.77	-113.85	-110.62	-106.06	14922	1
lp[225,2]	-89.83	0.02	2.00	-94.44	-91.03	-89.58	-88.36	-86.69	14355	1

lp[225,3]	-83.79	0.01	1.56	-87.47	-84.70	-83.57	-82.64	-81.43	11577	1
lp[226,1]	-114.66	0.04	5.43	-127.14	-117.93	-113.97	-110.69	-106.05	14983	1
lp[226,2]	-89.43	0.02	2.00	-94.04	-90.63	-89.18	-87.97	-86.29	14319	1
lp[226,3]	-83.69	0.01	1.60	-87.44	-84.61	-83.47	-82.52	-81.26	11350	1
lp[227,1]	-114.67	0.04	5.49	-127.29	-117.99	-113.98	-110.65	-105.93	15093	1
lp[227,2]	-89.14	0.02	2.00	-93.75	-90.34	-88.89	-87.67	-85.99	14330	1
lp[227,3]	-83.53	0.02	1.63	-87.35	-84.49	-83.32	-82.33	-81.02	11157	1
lp[228,1]	-115.25	0.04	5.51	-127.94	-118.58	-114.56	-111.22	-106.48	15115	1
lp[228,2]	-90.02	0.02	2.00	-94.65	-91.21	-89.77	-88.54	-86.86	14463	1
lp[228,3]	-84.09	0.02	1.62	-87.90	-85.04	-83.88	-82.90	-81.61	11187	1
lp[229,1]	-115.18	0.05	5.60	-128.04	-118.57	-114.49	-111.08	-106.23	15206	1
lp[229,2]	-89.18	0.02	2.00	-93.81	-90.38	-88.93	-87.71	-86.04	14383	1
lp[229,3]	-83.73	0.02	1.68	-87.63	-84.72	-83.52	-82.49	-81.10	10882	1
lp[230,1]	-115.34	0.05	5.67	-128.31	-118.76	-114.64	-111.19	-106.28	15277	1
lp[230,2]	-89.03	0.02	2.00	-93.66	-90.23	-88.78	-87.56	-85.88	14389	1
lp[230,3]	-83.71	0.02	1.72	-87.68	-84.74	-83.50	-82.45	-81.01	10728	1
lp[231,1]	-115.32	0.05	5.75	-128.43	-118.78	-114.62	-111.11	-106.09	15363	1
lp[231,2]	-88.38	0.02	2.00	-92.99	-89.59	-88.14	-86.91	-85.23	14326	1
lp[231,3]	-83.43	0.02	1.78	-87.49	-84.50	-83.22	-82.12	-80.60	10500	1
lp[232,1]	-115.15	0.05	5.84	-128.44	-118.68	-114.45	-110.88	-105.74	15471	1
lp[232,2]	-87.41	0.02	2.01	-92.05	-88.62	-87.17	-85.93	-84.25	14206	1
lp[232,3]	-82.95	0.02	1.87	-87.16	-84.09	-82.75	-81.58	-79.94	10251	1
lp[233,1]	-114.94	0.05	5.94	-128.43	-118.53	-114.23	-110.60	-105.35	15601	1
lp[233,2]	-86.48	0.02	2.01	-91.15	-87.69	-86.23	-84.99	-83.29	14074	1
lp[233,3]	-82.44	0.02	1.95	-86.80	-83.65	-82.25	-81.01	-79.25	10053	1
lp[234,1]	-114.86	0.05	6.01	-128.50	-118.50	-114.16	-110.48	-105.13	15724	1
lp[234,2]	-86.08	0.02	2.02	-90.75	-87.30	-85.83	-84.59	-82.89	14070	1
lp[234,3]	-82.17	0.02	2.01	-86.63	-83.41	-81.97	-80.69	-78.88	9973	1
lp[235,1]	-114.99	0.05	6.09	-128.78	-118.68	-114.29	-110.55	-105.13	15778	1
lp[235,2]	-85.69	0.02	2.02	-90.34	-86.90	-85.43	-84.20	-82.49	14031	1
lp[235,3]	-82.03	0.02	2.06	-86.57	-83.31	-81.84	-80.52	-78.64	9902	1
lp[236,1]	-115.22	0.05	6.13	-129.10	-118.94	-114.50	-110.74	-105.28	15718	1
lp[236,2]	-85.85	0.02	2.05	-90.58	-87.09	-85.60	-84.34	-82.61	14108	1
lp[236,3]	-82.10	0.02	2.05	-86.63	-83.37	-81.91	-80.60	-78.73	9954	1
lp[237,1]	-115.10	0.05	6.20	-129.14	-118.87	-114.37	-110.56	-105.03	15620	1
lp[237,2]	-85.15	0.02	2.02	-89.82	-86.36	-84.89	-83.65	-81.95	14031	1
lp[237,3]	-81.70	0.02	2.05	-86.21	-82.97	-81.52	-80.20	-78.27	9881	1
lp[238,1]	-115.08	0.05	6.28	-129.25	-118.91	-114.35	-110.49	-104.87	15470	1
lp[238,2]	-84.44	0.02	1.99	-89.03	-85.62	-84.18	-82.97	-81.32	13958	1
lp[238,3]	-81.35	0.02	2.05	-85.85	-82.63	-81.18	-79.86	-77.89	9845	1
lp[239,1]	-114.96	0.05	6.36	-129.35	-118.84	-114.23	-110.31	-104.62	15357	1
lp[239,2]	-83.65	0.02	1.95	-88.18	-84.82	-83.39	-82.20	-80.59	13863	1
lp[239,3]	-80.89	0.02	2.05	-85.35	-82.17	-80.72	-79.41	-77.39	9845	1
lp[240,1]	-114.67	0.05	6.45	-129.26	-118.61	-113.93	-109.94	-104.18	15248	1
lp[240,2]	-82.48	0.02	1.90	-86.92	-83.62	-82.22	-81.08	-79.52	13696	1
lp[240,3]	-80.17	0.02	2.05	-84.60	-81.46	-80.01	-78.71	-76.64	9846	1
lp[241,1]	-114.31	0.05	6.55	-129.13	-118.33	-113.55	-109.52	-103.62	15152	1
lp[241,2]	-81.21	0.02	1.85	-85.57	-82.31	-80.95	-79.83	-78.34	13498	1
lp[241,3]	-79.32	0.02	2.03	-83.72	-80.60	-79.17	-77.88	-75.77	9908	1
lp[242,1]	-114.01	0.05	6.65	-129.01	-118.09	-113.23	-109.15	-103.14	15047	1
lp[242,2]	-80.00	0.02	1.81	-84.26	-81.07	-79.74	-78.66	-77.24	13319	1
lp[242,3]	-78.47	0.02	2.00	-82.80	-79.70	-78.32	-77.07	-74.94	10051	1
lp[243,1]	-113.69	0.06	6.75	-128.89	-117.85	-112.90	-108.77	-102.66	14961	1
lp[243,2]	-78.83	0.02	1.76	-83.00	-79.86	-78.57	-77.52	-76.14	13139	1
lp[243,3]	-77.55	0.02	1.95	-81.82	-78.75	-77.40	-76.19	-74.11	10233	1
lp[244,1]	-113.43	0.06	6.85	-128.87	-117.65	-112.63	-108.44	-102.26	14864	1
lp[244,2]	-77.72	0.02	1.72	-81.81	-78.72	-77.46	-76.44	-75.12	12980	1
lp[244,3]	-76.65	0.02	1.89	-80.84	-77.80	-76.50	-75.34	-73.32	10420	1
lp[245,1]	-113.23	0.06	6.94	-128.86	-117.51	-112.43	-108.17	-101.90	14761	1
lp[245,2]	-76.70	0.01	1.68	-80.71	-77.67	-76.44	-75.45	-74.17	12840	1
lp[245,3]	-75.77	0.02	1.83	-79.88	-76.88	-75.61	-74.50	-72.58	10602	1
lp[246,1]	-112.93	0.06	7.04	-128.76	-117.28	-112.14	-107.79	-101.43	14681	1
lp[246,2]	-75.53	0.01	1.65	-79.47	-76.48	-75.28	-74.32	-73.07	12672	1
lp[246,3]	-74.75	0.02	1.78	-78.78	-75.83	-74.58	-73.52	-71.70	10721	1
lp[247,1]	-112.90	0.06	7.10	-128.87	-117.29	-112.11	-107.71	-101.28	14645	1
lp[247,2]	-75.20	0.01	1.65	-79.15	-76.15	-74.95	-73.99	-72.74	12683	1
lp[247,3]	-74.12	0.02	1.72	-78.06	-75.14	-73.93	-72.91	-71.28	11009	1
lp[248,1]	-112.90	0.06	7.19	-129.04	-117.34	-112.10	-107.66	-101.10	14712	1
lp[248,2]	-74.48	0.01	1.66	-78.44	-75.43	-74.22	-73.25	-71.99	12657	1
lp[248,3]	-73.51	0.02	1.75	-77.52	-74.55	-73.31	-72.27	-70.66	11089	1
lp[249,1]	-113.29	0.06	7.24	-129.53	-117.77	-112.49	-108.01	-101.40	14741	1
lp[249,2]	-74.68	0.01	1.66	-78.64	-75.63	-74.42	-73.46	-72.20	12666	1
lp[249,3]	-73.40	0.02	1.73	-77.39	-74.42	-73.19	-72.16	-70.64	11338	1
lp[250,1]	-113.42	0.06	7.31	-129.80	-117.95	-112.60	-108.08	-101.38	14777	1
lp[250,2]	-74.17	0.01	1.67	-78.14	-75.13	-73.92	-72.94	-71.67	12661	1
lp[250,3]	-73.01	0.02	1.75	-77.05	-74.04	-72.79	-71.75	-70.21	11347	1
lp[251,1]	-113.59	0.06	7.37	-130.10	-118.16	-112.77	-108.21	-101.46	14826	1

lp[251,2]	-74.03	0.01	1.67	-78.00	-74.99	-73.78	-72.80	-71.53	12668	1
lp[251,3]	-72.72	0.02	1.75	-76.78	-73.74	-72.49	-71.45	-69.94	11459	1
lp[252,1]	-113.87	0.06	7.43	-130.52	-118.47	-113.05	-108.45	-101.64	14860	1
lp[252,2]	-73.94	0.01	1.67	-77.92	-74.90	-73.69	-72.71	-71.44	12670	1
lp[252,3]	-72.56	0.02	1.75	-76.62	-73.58	-72.33	-71.29	-69.79	11519	1
lp[253,1]	-113.69	0.06	7.51	-130.51	-118.34	-112.87	-108.21	-101.28	14979	1
lp[253,2]	-73.37	0.01	1.68	-77.37	-74.33	-73.11	-72.13	-70.85	12651	1
lp[253,3]	-71.95	0.02	1.77	-76.05	-72.98	-71.72	-70.66	-69.17	11474	1
lp[254,1]	-113.93	0.06	7.58	-130.86	-118.62	-113.11	-108.41	-101.40	14992	1
lp[254,2]	-73.09	0.01	1.69	-77.10	-74.06	-72.84	-71.85	-70.57	12651	1
lp[254,3]	-71.73	0.02	1.78	-75.86	-72.77	-71.50	-70.43	-68.92	11492	1
lp[255,1]	-113.93	0.06	7.66	-131.02	-118.68	-113.11	-108.36	-101.24	15045	1
lp[255,2]	-72.38	0.02	1.70	-76.41	-73.36	-72.13	-71.13	-69.82	12631	1
lp[255,3]	-71.21	0.02	1.81	-75.38	-72.28	-70.98	-69.90	-68.34	11426	1
lp[256,1]	-113.79	0.06	7.76	-131.08	-118.61	-112.97	-108.15	-100.91	15105	1
lp[256,2]	-71.31	0.02	1.73	-75.38	-72.31	-71.05	-70.04	-68.69	12594	1
lp[256,3]	-70.45	0.02	1.84	-74.68	-71.55	-70.23	-69.12	-67.49	11341	1
lp[257,1]	-113.66	0.06	7.86	-131.14	-118.55	-112.85	-107.95	-100.61	15163	1
lp[257,2]	-70.25	0.02	1.76	-74.38	-71.28	-69.99	-68.96	-67.57	12557	1
lp[257,3]	-69.61	0.02	1.87	-73.89	-70.73	-69.39	-68.27	-66.59	11342	1
lp[258,1]	-113.68	0.06	7.94	-131.36	-118.63	-112.85	-107.90	-100.47	15185	1
lp[258,2]	-69.37	0.02	1.79	-73.56	-70.42	-69.13	-68.06	-66.63	12582	1
lp[258,3]	-68.85	0.02	1.88	-73.15	-69.97	-68.63	-67.50	-65.81	11444	1
lp[259,1]	-113.75	0.07	8.03	-131.67	-118.75	-112.92	-107.93	-100.40	15200	1
lp[259,2]	-68.68	0.02	1.81	-72.92	-69.74	-68.44	-67.35	-65.89	12613	1
lp[259,3]	-68.15	0.02	1.89	-72.48	-69.26	-67.93	-66.79	-65.12	11596	1
lp[260,1]	-113.36	0.07	8.12	-131.42	-118.42	-112.52	-107.46	-99.80	15162	1
lp[260,2]	-67.53	0.02	1.80	-71.74	-68.58	-67.29	-66.21	-64.77	12486	1
lp[260,3]	-66.98	0.02	1.86	-71.25	-68.07	-66.76	-65.64	-64.02	11534	1
lp[261,1]	-113.01	0.07	8.22	-131.26	-118.13	-112.17	-107.04	-99.27	15106	1
lp[261,2]	-66.39	0.02	1.78	-70.56	-67.42	-66.14	-65.08	-63.66	12386	1
lp[261,3]	-65.86	0.02	1.83	-70.08	-66.93	-65.64	-64.54	-62.94	11468	1
lp[262,1]	-112.84	0.07	8.31	-131.34	-118.04	-112.00	-106.80	-98.95	15014	1
lp[262,2]	-65.48	0.02	1.76	-69.61	-66.50	-65.24	-64.19	-62.78	12362	1
lp[262,3]	-64.93	0.02	1.80	-69.09	-65.98	-64.70	-63.63	-62.07	11483	1
lp[263,1]	-113.34	0.07	8.32	-131.89	-118.54	-112.48	-107.28	-99.43	14999	1
lp[263,2]	-66.42	0.02	1.79	-70.62	-67.46	-66.17	-65.10	-63.66	12456	1
lp[263,3]	-64.98	0.02	1.78	-69.11	-66.01	-64.75	-63.67	-62.21	11919	1
lp[264,1]	-113.51	0.07	8.37	-132.18	-118.73	-112.65	-107.43	-99.53	14961	1
lp[264,2]	-66.56	0.02	1.81	-70.80	-67.62	-66.32	-65.24	-63.78	12498	1
lp[264,3]	-64.84	0.02	1.78	-68.97	-65.88	-64.61	-63.53	-62.07	11935	1
lp[265,1]	-113.25	0.07	8.46	-132.07	-118.54	-112.39	-107.10	-99.10	14916	1
lp[265,2]	-65.64	0.02	1.80	-69.85	-66.68	-65.39	-64.32	-62.88	12419	1
lp[265,3]	-64.15	0.02	1.78	-68.28	-65.19	-63.92	-62.85	-61.36	11651	1
lp[266,1]	-112.91	0.07	8.55	-131.90	-118.25	-112.04	-106.69	-98.57	14890	1
lp[266,2]	-64.60	0.02	1.78	-68.80	-65.64	-64.36	-63.30	-61.86	12314	1
lp[266,3]	-63.33	0.02	1.78	-67.46	-64.37	-63.10	-62.03	-60.50	11402	1
lp[267,1]	-112.52	0.07	8.66	-131.73	-117.93	-111.65	-106.23	-97.99	14841	1
lp[267,2]	-63.34	0.02	1.77	-67.50	-64.36	-63.10	-62.05	-60.64	12205	1
lp[267,3]	-62.37	0.02	1.79	-66.52	-63.42	-62.14	-61.07	-59.51	11182	1
lp[268,1]	-112.14	0.07	8.75	-131.55	-117.62	-111.27	-105.79	-97.43	14826	1
lp[268,2]	-62.28	0.02	1.76	-66.43	-63.30	-62.04	-60.99	-59.59	12102	1
lp[268,3]	-61.39	0.02	1.79	-65.53	-62.44	-61.17	-60.10	-58.53	11090	1
lp[269,1]	-112.05	0.07	8.84	-131.63	-117.58	-111.17	-105.63	-97.19	14753	1
lp[269,2]	-61.54	0.02	1.75	-65.65	-62.55	-61.30	-60.26	-58.87	12090	1
lp[269,3]	-60.68	0.02	1.77	-64.79	-61.73	-60.46	-59.40	-57.85	11115	1
lp[270,1]	-112.16	0.07	8.86	-131.79	-117.69	-111.28	-105.72	-97.28	14755	1
lp[270,2]	-62.00	0.02	1.76	-66.13	-63.03	-61.76	-60.71	-59.30	12394	1
lp[270,3]	-60.42	0.02	1.76	-64.53	-61.45	-60.19	-59.14	-57.67	11496	1
lp[271,1]	-112.14	0.07	8.93	-131.96	-117.72	-111.25	-105.65	-97.13	14699	1
lp[271,2]	-61.52	0.02	1.76	-65.64	-62.54	-61.28	-60.23	-58.83	12380	1
lp[271,3]	-60.00	0.02	1.75	-64.08	-61.03	-59.77	-58.72	-57.25	11420	1
lp[272,1]	-112.54	0.07	8.94	-132.36	-118.12	-111.65	-106.04	-97.54	14696	1
lp[272,2]	-62.51	0.02	1.71	-66.51	-63.50	-62.27	-61.25	-59.90	12686	1
lp[272,3]	-60.25	0.02	1.72	-64.31	-61.25	-60.02	-58.99	-57.60	11787	1
lp[273,1]	-112.68	0.07	9.01	-132.66	-118.31	-111.78	-106.13	-97.54	14711	1
lp[273,2]	-61.98	0.02	1.73	-66.04	-62.98	-61.74	-60.70	-59.32	12751	1
lp[273,3]	-60.03	0.02	1.76	-64.12	-61.06	-59.80	-58.75	-57.27	11663	1
lp[274,1]	-112.90	0.07	9.08	-133.02	-118.57	-111.99	-106.30	-97.62	14745	1
lp[274,2]	-61.74	0.02	1.74	-65.82	-62.76	-61.51	-60.46	-59.07	12770	1
lp[274,3]	-59.90	0.02	1.79	-64.05	-60.94	-59.67	-58.60	-57.09	11618	1
lp[275,1]	-113.85	0.07	9.10	-134.01	-119.52	-112.94	-107.24	-98.55	14743	1
lp[275,2]	-63.03	0.02	1.70	-67.04	-64.01	-62.79	-61.78	-60.45	12548	1
lp[275,3]	-60.69	0.02	1.77	-64.79	-61.71	-60.45	-59.40	-57.93	11807	1
lp[276,1]	-113.83	0.08	9.18	-134.16	-119.57	-112.93	-107.17	-98.38	14797	1
lp[276,2]	-62.30	0.02	1.73	-66.36	-63.30	-62.06	-61.04	-59.68	12582	1
lp[276,3]	-60.30	0.02	1.81	-64.50	-61.36	-60.07	-58.99	-57.44	11583	1

lp[277,1]	-114.45	0.08	9.20	-134.84	-120.20	-113.54	-107.77	-98.97	14808	1
lp[277,2]	-63.22	0.02	1.69	-67.22	-64.18	-62.97	-61.98	-60.67	12541	1
lp[277,3]	-60.77	0.02	1.79	-64.93	-61.80	-60.54	-59.47	-57.98	11742	1
lp[278,1]	-114.48	0.08	9.28	-135.07	-120.29	-113.58	-107.74	-98.86	14839	1
lp[278,2]	-62.55	0.02	1.71	-66.59	-63.54	-62.30	-61.29	-59.96	12583	1
lp[278,3]	-60.45	0.02	1.83	-64.67	-61.51	-60.22	-59.12	-57.55	11563	1
lp[279,1]	-114.51	0.08	9.37	-135.25	-120.37	-113.60	-107.71	-98.74	14854	1
lp[279,2]	-61.73	0.02	1.75	-65.83	-62.75	-61.49	-60.45	-59.07	12673	1
lp[279,3]	-60.04	0.02	1.88	-64.33	-61.15	-59.82	-58.68	-57.02	11451	1
lp[280,1]	-114.27	0.08	9.47	-135.20	-120.20	-113.35	-107.39	-98.30	14928	1
lp[280,2]	-60.61	0.02	1.78	-64.77	-61.64	-60.36	-59.30	-57.88	12666	1
lp[280,3]	-59.29	0.02	1.92	-63.66	-60.44	-59.08	-57.91	-56.16	11310	1
lp[281,1]	-114.05	0.08	9.56	-135.19	-120.06	-113.14	-107.12	-97.89	14995	1
lp[281,2]	-59.52	0.02	1.82	-63.79	-60.59	-59.27	-58.18	-56.71	12662	1
lp[281,3]	-58.50	0.02	1.96	-62.92	-59.66	-58.29	-57.09	-55.29	11291	1
lp[282,1]	-114.17	0.08	9.64	-135.47	-120.23	-113.25	-107.17	-97.88	15034	1
lp[282,2]	-59.09	0.02	1.84	-63.40	-60.17	-58.84	-57.74	-56.26	12678	1
lp[282,3]	-58.05	0.02	1.96	-62.49	-59.21	-57.83	-56.64	-54.85	11466	1
lp[283,1]	-114.31	0.08	9.71	-135.74	-120.42	-113.39	-107.27	-97.89	15059	1
lp[283,2]	-58.71	0.02	1.86	-63.05	-59.80	-58.45	-57.35	-55.85	12698	1
lp[283,3]	-57.64	0.02	1.97	-62.10	-58.81	-57.42	-56.23	-54.45	11612	1
lp[284,1]	-114.83	0.08	9.72	-136.31	-120.95	-113.91	-107.78	-98.41	15052	1
lp[284,2]	-59.72	0.02	1.89	-64.14	-60.83	-59.47	-58.34	-56.80	12822	1
lp[284,3]	-57.88	0.02	1.93	-62.30	-59.01	-57.65	-56.48	-54.81	12033	1
lp[285,1]	-115.24	0.08	9.75	-136.80	-121.38	-114.31	-108.17	-98.79	15030	1
lp[285,2]	-60.37	0.02	1.91	-64.85	-61.50	-60.12	-58.97	-57.41	12877	1
lp[285,3]	-58.11	0.02	1.92	-62.53	-59.24	-57.88	-56.72	-55.07	12158	1
lp[286,1]	-115.08	0.08	9.83	-136.81	-121.26	-114.15	-107.95	-98.47	14985	1
lp[286,2]	-59.64	0.02	1.90	-64.09	-60.75	-59.39	-58.24	-56.69	12833	1
lp[286,3]	-57.61	0.02	1.92	-62.01	-58.74	-57.38	-56.22	-54.56	11925	1
lp[287,1]	-114.59	0.08	9.94	-136.53	-120.84	-113.65	-107.38	-97.75	14961	1
lp[287,2]	-58.26	0.02	1.88	-62.65	-59.36	-58.00	-56.88	-55.36	12680	1
lp[287,3]	-56.67	0.02	1.92	-61.05	-57.81	-56.45	-55.29	-53.59	11563	1
lp[288,1]	-114.35	0.08	10.04	-136.53	-120.65	-113.41	-107.07	-97.36	14882	1
lp[288,2]	-57.14	0.02	1.87	-61.51	-58.23	-56.88	-55.77	-54.26	12660	1
lp[288,3]	-55.91	0.02	1.92	-60.26	-57.05	-55.71	-54.53	-52.79	11427	1
lp[289,1]	-114.36	0.08	10.10	-136.66	-120.69	-113.42	-107.03	-97.25	14849	1
lp[289,2]	-56.84	0.02	1.87	-61.21	-57.93	-56.59	-55.47	-53.96	12660	1
lp[289,3]	-55.48	0.02	1.90	-59.80	-56.61	-55.26	-54.11	-52.41	11547	1
lp[290,1]	-114.18	0.08	10.19	-136.65	-120.57	-113.23	-106.79	-96.87	14777	1
lp[290,2]	-55.87	0.02	1.86	-60.21	-56.96	-55.62	-54.51	-53.01	12650	1
lp[290,3]	-54.76	0.02	1.90	-59.07	-55.88	-54.55	-53.40	-51.68	11479	1
lp[291,1]	-113.91	0.08	10.30	-136.59	-120.36	-112.95	-106.45	-96.41	14700	1
lp[291,2]	-54.68	0.02	1.84	-58.97	-55.75	-54.43	-53.34	-51.85	12651	1
lp[291,3]	-53.86	0.02	1.89	-58.14	-54.98	-53.65	-52.51	-50.78	11439	1
lp[292,1]	-113.67	0.09	10.39	-136.56	-120.20	-112.70	-106.14	-95.97	14631	1
lp[292,2]	-53.58	0.02	1.83	-57.85	-54.65	-53.33	-52.24	-50.76	12657	1
lp[292,3]	-52.92	0.02	1.88	-57.17	-54.03	-52.71	-51.58	-49.87	11496	1
lp[293,1]	-113.81	0.09	10.45	-136.86	-120.40	-112.84	-106.25	-96.01	14587	1
lp[293,2]	-53.46	0.02	1.84	-57.73	-54.53	-53.21	-52.12	-50.63	12649	1
lp[293,3]	-52.47	0.02	1.85	-56.70	-53.55	-52.25	-51.13	-49.51	11767	1
lp[294,1]	-113.73	0.09	10.53	-136.96	-120.36	-112.74	-106.10	-95.80	14550	1
lp[294,2]	-52.91	0.02	1.83	-57.18	-53.98	-52.66	-51.57	-50.09	12639	1
lp[294,3]	-51.84	0.02	1.85	-56.07	-52.92	-51.63	-50.51	-48.90	11785	1
lp[295,1]	-113.33	0.09	10.64	-136.76	-120.03	-112.35	-105.62	-95.20	14515	1
lp[295,2]	-51.62	0.02	1.83	-55.85	-52.68	-51.37	-50.28	-48.81	12590	1
lp[295,3]	-50.81	0.02	1.85	-55.04	-51.90	-50.60	-49.48	-47.86	11614	1
lp[296,1]	-113.65	0.09	10.70	-137.23	-120.39	-112.65	-105.91	-95.41	14533	1
lp[296,2]	-51.59	0.02	1.83	-55.83	-52.66	-51.34	-50.26	-48.79	12595	1
lp[296,3]	-50.57	0.02	1.87	-54.84	-51.66	-50.35	-49.22	-47.61	11810	1
lp[297,1]	-114.23	0.09	10.72	-137.84	-120.99	-113.22	-106.47	-95.94	14543	1
lp[297,2]	-52.34	0.02	1.79	-56.50	-53.37	-52.08	-51.02	-49.62	12510	1
lp[297,3]	-50.78	0.02	1.85	-55.04	-51.86	-50.55	-49.43	-47.89	12021	1
lp[298,1]	-114.45	0.09	10.79	-138.20	-121.25	-113.45	-106.64	-96.05	14566	1
lp[298,2]	-52.07	0.02	1.80	-56.25	-53.11	-51.81	-50.75	-49.33	12543	1
lp[298,3]	-50.59	0.02	1.88	-54.90	-51.68	-50.35	-49.23	-47.64	11946	1
lp[299,1]	-116.91	0.09	10.62	-140.36	-123.57	-115.91	-109.21	-98.92	14453	1
lp[299,2]	-57.86	0.01	1.59	-61.65	-58.75	-57.60	-56.70	-55.53	12046	1
lp[299,3]	-53.61	0.02	1.73	-57.67	-54.61	-53.36	-52.36	-50.98	12877	1
lp[300,1]	-116.93	0.09	10.70	-140.55	-123.65	-115.91	-109.18	-98.77	14495	1
lp[300,2]	-57.29	0.01	1.60	-61.11	-58.19	-57.04	-56.13	-54.93	12105	1
lp[300,3]	-53.37	0.02	1.74	-57.44	-54.38	-53.12	-52.09	-50.72	12705	1
lp[301,1]	-116.80	0.09	10.78	-140.57	-123.58	-115.78	-108.99	-98.46	14552	1
lp[301,2]	-56.41	0.01	1.62	-60.29	-57.33	-56.16	-55.24	-54.02	12192	1
lp[301,3]	-52.94	0.02	1.78	-57.07	-53.96	-52.69	-51.64	-50.24	12443	1
lp[302,1]	-116.81	0.09	10.87	-140.81	-123.64	-115.81	-108.93	-98.30	14566	1
lp[302,2]	-55.56	0.01	1.65	-59.49	-56.50	-55.31	-54.36	-53.10	12348	1

lp[302,3]	-52.60	0.02	1.82	-56.81	-53.67	-52.36	-51.27	-49.79	12231	1
lp[303,1]	-116.90	0.09	10.95	-141.06	-123.78	-115.88	-108.97	-98.23	14569	1
lp[303,2]	-54.82	0.02	1.69	-58.83	-55.79	-54.56	-53.59	-52.29	12514	1
lp[303,3]	-52.33	0.02	1.87	-56.63	-53.44	-52.10	-50.96	-49.40	12061	1
lp[304,1]	-116.73	0.09	11.05	-141.09	-123.68	-115.71	-108.73	-97.90	14623	1
lp[304,2]	-53.80	0.02	1.72	-57.87	-54.79	-53.54	-52.54	-51.20	12617	1
lp[304,3]	-51.77	0.02	1.92	-56.14	-52.90	-51.53	-50.36	-48.72	11810	1
lp[305,1]	-116.72	0.09	11.14	-141.26	-123.75	-115.69	-108.67	-97.73	14636	1
lp[305,2]	-52.88	0.02	1.77	-57.04	-53.91	-52.62	-51.59	-50.20	12785	1
lp[305,3]	-51.29	0.02	1.96	-55.73	-52.46	-51.07	-49.87	-48.13	11722	1
lp[306,1]	-117.00	0.09	11.20	-141.69	-124.06	-115.96	-108.91	-97.91	14662	1
lp[306,2]	-52.85	0.02	1.77	-57.01	-53.88	-52.58	-51.55	-50.17	12781	1
lp[306,3]	-51.19	0.02	1.95	-55.61	-52.36	-50.97	-49.77	-48.06	11830	1
lp[307,1]	-116.97	0.09	11.28	-141.85	-124.11	-115.94	-108.82	-97.73	14705	1
lp[307,2]	-52.13	0.02	1.80	-56.33	-53.18	-51.87	-50.82	-49.41	12853	1
lp[307,3]	-50.70	0.02	1.97	-55.14	-51.88	-50.48	-49.28	-47.52	11787	1
lp[308,1]	-116.66	0.09	11.37	-141.68	-123.84	-115.62	-108.44	-97.22	14680	1
lp[308,2]	-51.16	0.02	1.79	-55.34	-52.19	-50.90	-49.86	-48.45	12807	1
lp[308,3]	-49.89	0.02	1.93	-54.26	-51.05	-49.68	-48.50	-46.76	11717	1
lp[309,1]	-116.50	0.09	11.46	-141.73	-123.73	-115.45	-108.22	-96.93	14632	1
lp[309,2]	-50.35	0.02	1.79	-54.54	-51.38	-50.09	-49.05	-47.64	12796	1
lp[309,3]	-49.20	0.02	1.91	-53.51	-50.33	-48.99	-47.83	-46.11	11740	1
lp[310,1]	-116.64	0.10	11.51	-141.95	-123.90	-115.59	-108.33	-96.98	14613	1
lp[310,2]	-50.43	0.02	1.80	-54.62	-51.47	-50.16	-49.12	-47.71	12806	1
lp[310,3]	-48.94	0.02	1.87	-53.21	-50.03	-48.71	-47.59	-45.94	11949	1
lp[311,1]	-116.97	0.10	11.55	-142.37	-124.25	-115.90	-108.61	-97.24	14581	1
lp[311,2]	-50.71	0.02	1.80	-54.91	-51.75	-50.44	-49.40	-47.99	12786	1
lp[311,3]	-48.94	0.02	1.86	-53.20	-50.02	-48.71	-47.60	-46.00	12065	1
lp[312,1]	-116.91	0.10	11.63	-142.48	-124.25	-115.84	-108.49	-97.05	14531	1
lp[312,2]	-50.07	0.02	1.80	-54.27	-51.11	-49.81	-48.76	-47.35	12784	1
lp[312,3]	-48.48	0.02	1.85	-52.73	-49.56	-48.25	-47.14	-45.52	11952	1
lp[313,1]	-117.19	0.10	11.68	-142.86	-124.55	-116.12	-108.74	-97.24	14496	1
lp[313,2]	-50.27	0.02	1.80	-54.48	-51.31	-50.00	-48.95	-47.54	12770	1
lp[313,3]	-48.45	0.02	1.85	-52.70	-49.52	-48.22	-47.11	-45.52	12032	1
lp[314,1]	-117.34	0.10	11.76	-143.18	-124.74	-116.26	-108.83	-97.28	14424	1
lp[314,2]	-49.89	0.02	1.81	-54.09	-50.93	-49.62	-48.57	-47.16	12788	1
lp[314,3]	-48.21	0.02	1.85	-52.46	-49.30	-47.98	-46.87	-45.27	11982	1
lp[315,1]	-117.34	0.10	11.84	-143.29	-124.80	-116.25	-108.76	-97.13	14373	1
lp[315,2]	-49.32	0.02	1.81	-53.52	-50.36	-49.05	-48.00	-46.58	12799	1
lp[315,3]	-47.79	0.02	1.85	-52.03	-48.88	-47.56	-46.46	-44.83	11920	1
lp[316,1]	-117.31	0.10	11.93	-143.47	-124.81	-116.20	-108.68	-96.93	14298	1
lp[316,2]	-48.51	0.02	1.81	-52.73	-49.56	-48.25	-47.19	-45.77	12858	1
lp[316,3]	-47.26	0.02	1.86	-51.50	-48.35	-47.03	-45.92	-44.27	11879	1
lp[317,1]	-117.64	0.10	11.96	-143.87	-125.17	-116.54	-109.00	-97.24	14286	1
lp[317,2]	-49.06	0.02	1.82	-53.30	-50.12	-48.80	-47.74	-46.30	12877	1
lp[317,3]	-47.29	0.02	1.84	-51.52	-48.37	-47.06	-45.96	-44.39	12135	1
lp[318,1]	-117.35	0.10	12.05	-143.75	-124.94	-116.25	-108.65	-96.77	14267	1
lp[318,2]	-48.11	0.02	1.81	-52.32	-49.15	-47.84	-46.79	-45.36	12845	1
lp[318,3]	-46.57	0.02	1.84	-50.79	-47.65	-46.35	-45.25	-43.65	11951	1
lp[319,1]	-116.90	0.10	12.16	-143.50	-124.56	-115.78	-108.11	-96.09	14245	1
lp[319,2]	-46.73	0.02	1.80	-50.94	-47.76	-46.46	-45.41	-43.99	12805	1
lp[319,3]	-45.58	0.02	1.84	-49.78	-46.66	-45.36	-44.27	-42.62	11741	1
lp[320,1]	-117.46	0.10	12.20	-144.19	-125.15	-116.35	-108.64	-96.59	14252	1
lp[320,2]	-47.19	0.02	1.79	-51.37	-48.21	-46.92	-45.88	-44.49	12711	1
lp[320,3]	-45.73	0.02	1.84	-49.97	-46.81	-45.50	-44.40	-42.82	11989	1
lp[321,1]	-117.42	0.10	12.29	-144.35	-125.19	-116.29	-108.53	-96.37	14292	1
lp[321,2]	-46.31	0.02	1.82	-50.58	-47.36	-46.05	-44.98	-43.55	12857	1
lp[321,3]	-45.16	0.02	1.88	-49.48	-46.27	-44.93	-43.81	-42.16	11932	1
lp[322,1]	-117.86	0.10	12.34	-144.88	-125.66	-116.74	-108.94	-96.74	14303	1
lp[322,2]	-46.61	0.02	1.81	-50.86	-47.64	-46.34	-45.28	-43.88	12799	1
lp[322,3]	-45.19	0.02	1.88	-49.52	-46.29	-44.95	-43.82	-42.22	12117	1
lp[323,1]	-119.12	0.10	12.32	-146.10	-126.90	-117.99	-110.21	-98.04	14300	1
lp[323,2]	-48.86	0.02	1.70	-52.88	-49.81	-48.59	-47.62	-46.34	12304	1
lp[323,3]	-46.38	0.02	1.81	-50.62	-47.42	-46.12	-45.06	-43.61	12376	1
lp[324,1]	-119.16	0.10	12.41	-146.35	-126.98	-118.03	-110.19	-97.95	14304	1
lp[324,2]	-48.00	0.02	1.75	-52.11	-48.98	-47.73	-46.72	-45.40	12506	1
lp[324,3]	-46.02	0.02	1.87	-50.35	-47.10	-45.77	-44.66	-43.10	12205	1
lp[325,1]	-119.14	0.10	12.48	-146.42	-127.02	-118.01	-110.12	-97.77	14354	1
lp[325,2]	-47.55	0.02	1.75	-51.67	-48.53	-47.27	-46.26	-44.93	12519	1
lp[325,3]	-45.66	0.02	1.88	-50.01	-46.76	-45.41	-44.30	-42.73	12061	1
lp[326,1]	-119.30	0.10	12.55	-146.77	-127.21	-118.18	-110.22	-97.79	14362	1
lp[326,2]	-47.03	0.02	1.79	-51.23	-48.03	-46.75	-45.72	-44.36	12632	1
lp[326,3]	-45.40	0.02	1.92	-49.81	-46.52	-45.16	-44.02	-42.38	11987	1
lp[327,1]	-119.45	0.11	12.62	-147.07	-127.42	-118.33	-110.33	-97.82	14384	1
lp[327,2]	-46.66	0.02	1.80	-50.91	-47.68	-46.38	-45.34	-43.97	12680	1
lp[327,3]	-45.14	0.02	1.93	-49.58	-46.27	-44.89	-43.74	-42.08	11965	1
lp[328,1]	-119.24	0.11	12.72	-147.06	-127.27	-118.10	-110.05	-97.43	14444	1

lp[328,2]	-45.66	0.02	1.84	-49.99	-46.70	-45.38	-44.31	-42.91	12731	1
lp[328,3]	-44.42	0.02	1.96	-48.89	-45.57	-44.18	-43.01	-41.29	11827	1
lp[329,1]	-119.35	0.11	12.78	-147.27	-127.43	-118.21	-110.12	-97.42	14490	1
lp[329,2]	-45.49	0.02	1.84	-49.82	-46.53	-45.21	-44.15	-42.74	12723	1
lp[329,3]	-44.10	0.02	1.95	-48.59	-45.22	-43.85	-42.69	-41.02	11916	1
lp[330,1]	-119.80	0.11	12.83	-147.86	-127.92	-118.66	-110.54	-97.78	14499	1
lp[330,2]	-45.69	0.02	1.83	-50.02	-46.73	-45.41	-44.35	-42.96	12694	1
lp[330,3]	-44.15	0.02	1.95	-48.64	-45.28	-43.90	-42.74	-41.09	12026	1
lp[331,1]	-120.29	0.11	12.87	-148.41	-128.43	-119.14	-111.01	-98.21	14513	1
lp[331,2]	-46.21	0.02	1.81	-50.47	-47.23	-45.93	-44.89	-43.53	12606	1
lp[331,3]	-44.35	0.02	1.93	-48.83	-45.46	-44.09	-42.96	-41.35	12132	1
lp[332,1]	-120.00	0.11	12.96	-148.33	-128.20	-118.86	-110.64	-97.74	14471	1
lp[332,2]	-45.14	0.02	1.81	-49.42	-46.15	-44.86	-43.82	-42.46	12602	1
lp[332,3]	-43.62	0.02	1.92	-48.05	-44.73	-43.37	-42.23	-40.60	11909	1
lp[333,1]	-120.50	0.11	12.97	-148.85	-128.69	-119.35	-111.14	-98.25	14469	1
lp[333,2]	-46.25	0.02	1.82	-50.54	-47.29	-45.96	-44.92	-43.53	12659	1
lp[333,3]	-43.97	0.02	1.89	-48.38	-45.06	-43.72	-42.60	-41.05	12211	1
lp[334,1]	-120.66	0.11	13.02	-149.08	-128.88	-119.50	-111.25	-98.32	14443	1
lp[334,2]	-46.23	0.02	1.83	-50.52	-47.27	-45.94	-44.89	-43.50	12654	1
lp[334,3]	-43.89	0.02	1.89	-48.28	-44.97	-43.63	-42.52	-40.97	12148	1
lp[335,1]	-120.52	0.11	13.11	-149.18	-128.81	-119.35	-111.05	-98.03	14384	1
lp[335,2]	-45.31	0.02	1.83	-49.62	-46.35	-45.02	-43.97	-42.58	12680	1
lp[335,3]	-43.36	0.02	1.90	-47.76	-44.46	-43.11	-42.00	-40.39	11954	1
lp[336,1]	-120.86	0.11	13.15	-149.60	-129.16	-119.68	-111.36	-98.33	14373	1
lp[336,2]	-45.85	0.02	1.84	-50.16	-46.90	-45.57	-44.51	-43.12	12695	1
lp[336,3]	-43.52	0.02	1.88	-47.90	-44.61	-43.27	-42.16	-40.59	12068	1
lp[337,1]	-120.64	0.11	13.24	-149.64	-129.03	-119.45	-111.09	-97.94	14320	1
lp[337,2]	-44.80	0.02	1.84	-49.14	-45.85	-44.51	-43.46	-42.06	12706	1
lp[337,3]	-42.90	0.02	1.89	-47.28	-44.00	-42.65	-41.53	-39.92	11861	1
lp[338,1]	-120.77	0.11	13.30	-149.91	-129.19	-119.59	-111.18	-97.99	14298	1
lp[338,2]	-44.75	0.02	1.84	-49.08	-45.80	-44.46	-43.40	-42.00	12700	1
lp[338,3]	-42.74	0.02	1.89	-47.11	-43.83	-42.49	-41.38	-39.78	11886	1
lp[339,1]	-120.58	0.11	13.40	-149.91	-129.05	-119.40	-110.92	-97.62	14243	1
lp[339,2]	-43.70	0.02	1.84	-48.07	-44.76	-43.41	-42.35	-40.94	12732	1
lp[339,3]	-42.10	0.02	1.90	-46.46	-43.21	-41.85	-40.74	-39.07	11746	1
lp[340,1]	-120.51	0.11	13.47	-149.98	-129.01	-119.34	-110.80	-97.44	14236	1
lp[340,2]	-43.38	0.02	1.85	-47.75	-44.43	-43.09	-42.03	-40.62	12730	1
lp[340,3]	-41.67	0.02	1.89	-46.02	-42.77	-41.43	-40.32	-38.69	11797	1
lp[341,1]	-120.03	0.11	13.58	-149.67	-128.61	-118.85	-110.24	-96.71	14225	1
lp[341,2]	-41.99	0.02	1.84	-46.33	-43.03	-41.70	-40.65	-39.25	12697	1
lp[341,3]	-40.68	0.02	1.89	-45.02	-41.78	-40.44	-39.34	-37.64	11608	1
lp[342,1]	-120.00	0.11	13.67	-149.86	-128.63	-118.83	-110.15	-96.54	14152	1
lp[342,2]	-41.14	0.02	1.85	-45.51	-42.20	-40.85	-39.78	-38.37	12783	1
lp[342,3]	-40.09	0.02	1.90	-44.45	-41.21	-39.85	-38.74	-37.02	11695	1
lp[343,1]	-120.00	0.12	13.74	-150.03	-128.67	-118.83	-110.11	-96.42	14123	1
lp[343,2]	-40.73	0.02	1.86	-45.11	-41.80	-40.44	-39.38	-37.96	12784	1
lp[343,3]	-39.57	0.02	1.89	-43.93	-40.67	-39.32	-38.22	-36.56	11863	1
lp[344,1]	-120.39	0.12	13.79	-150.51	-129.10	-119.21	-110.46	-96.73	14141	1
lp[344,2]	-40.92	0.02	1.85	-45.28	-41.97	-40.63	-39.57	-38.16	12734	1
lp[344,3]	-39.52	0.02	1.90	-43.91	-40.63	-39.26	-38.16	-36.56	12056	1
lp[345,1]	-120.53	0.12	13.87	-150.83	-129.29	-119.35	-110.54	-96.70	14163	1
lp[345,2]	-40.40	0.02	1.88	-44.83	-41.48	-40.12	-39.04	-37.60	12857	1
lp[345,3]	-39.17	0.02	1.93	-43.62	-40.30	-38.91	-37.78	-36.14	12090	1
lp[346,1]	-121.07	0.12	13.91	-151.46	-129.88	-119.89	-111.05	-97.19	14168	1
lp[346,2]	-40.86	0.02	1.85	-45.25	-41.92	-40.57	-39.51	-38.11	12757	1
lp[346,3]	-39.33	0.02	1.93	-43.80	-40.45	-39.06	-37.94	-36.34	12254	1
lp[347,1]	-121.30	0.12	13.99	-151.85	-130.16	-120.10	-111.23	-97.28	14176	1
lp[347,2]	-40.47	0.02	1.88	-44.92	-41.55	-40.18	-39.10	-37.67	12872	1
lp[347,3]	-39.10	0.02	1.96	-43.64	-40.24	-38.83	-37.69	-36.05	12255	1
lp[348,1]	-121.78	0.12	14.04	-152.42	-130.67	-120.57	-111.66	-97.68	14176	1
lp[348,2]	-40.72	0.02	1.88	-45.15	-41.78	-40.42	-39.35	-37.93	12823	1
lp[348,3]	-39.19	0.02	1.97	-43.76	-40.34	-38.92	-37.77	-36.14	12344	1
lp[349,1]	-122.31	0.12	14.07	-153.04	-131.23	-121.09	-112.17	-98.15	14190	1
lp[349,2]	-41.33	0.02	1.85	-45.72	-42.38	-41.03	-39.98	-38.60	12674	1
lp[349,3]	-39.44	0.02	1.95	-43.98	-40.57	-39.17	-38.03	-36.44	12434	1
lp[350,1]	-122.39	0.12	14.15	-153.32	-131.36	-121.17	-112.20	-98.10	14199	1
lp[350,2]	-40.61	0.02	1.90	-45.09	-41.70	-40.32	-39.23	-37.80	12849	1
lp[350,3]	-39.08	0.02	2.00	-43.71	-40.25	-38.81	-37.64	-35.97	12337	1
lp[351,1]	-122.42	0.12	14.23	-153.53	-131.45	-121.19	-112.18	-97.96	14223	1
lp[351,2]	-39.93	0.02	1.93	-44.47	-41.03	-39.64	-38.53	-37.06	12966	1
lp[351,3]	-38.63	0.02	2.03	-43.32	-39.82	-38.36	-37.17	-35.46	12286	1
lp[352,1]	-122.33	0.12	14.33	-153.64	-131.41	-121.10	-112.02	-97.68	14250	1
lp[352,2]	-38.94	0.02	1.98	-43.61	-40.07	-38.63	-37.49	-35.97	13134	1
lp[352,3]	-37.96	0.02	2.07	-42.74	-39.17	-37.69	-36.47	-34.70	12257	1
lp[353,1]	-122.21	0.12	14.42	-153.66	-131.35	-120.97	-111.82	-97.38	14286	1
lp[353,2]	-37.95	0.02	2.03	-42.71	-39.11	-37.64	-36.46	-34.90	13257	1
lp[353,3]	-37.18	0.02	2.10	-42.02	-38.41	-36.90	-35.67	-33.86	12307	1

lp[354,1]	-122.23	0.12	14.50	-153.87	-131.41	-120.99	-111.79	-97.27	14307	1
lp[354,2]	-37.22	0.02	2.07	-42.05	-38.41	-36.90	-35.70	-34.10	13368	1
lp[354,3]	-36.51	0.02	2.13	-41.43	-37.76	-36.23	-34.98	-33.17	12468	1
lp[355,1]	-122.36	0.12	14.57	-154.13	-131.57	-121.13	-111.86	-97.29	14337	1
lp[355,2]	-36.98	0.02	2.08	-41.83	-38.18	-36.67	-35.47	-33.86	13373	1
lp[355,3]	-36.04	0.02	2.13	-40.99	-37.28	-35.74	-34.50	-32.72	12669	1
lp[356,1]	-122.67	0.12	14.61	-154.52	-131.91	-121.43	-112.15	-97.53	14320	1
lp[356,2]	-37.34	0.02	2.07	-42.17	-38.53	-37.02	-35.82	-34.23	13328	1
lp[356,3]	-35.92	0.02	2.11	-40.82	-37.15	-35.62	-34.40	-32.68	12860	1
lp[357,1]	-123.11	0.12	14.63	-155.02	-132.37	-121.86	-112.58	-97.95	14312	1
lp[357,2]	-38.13	0.02	2.07	-42.98	-39.32	-37.81	-36.61	-35.02	13290	1
lp[357,3]	-36.14	0.02	2.10	-41.01	-37.35	-35.84	-34.62	-32.93	13005	1
lp[358,1]	-123.27	0.12	14.68	-155.29	-132.57	-122.02	-112.70	-98.04	14301	1
lp[358,2]	-38.26	0.02	2.07	-43.12	-39.46	-37.94	-36.74	-35.14	13282	1
lp[358,3]	-36.07	0.02	2.09	-40.93	-37.27	-35.77	-34.55	-32.87	12968	1
lp[359,1]	-123.29	0.12	14.75	-155.48	-132.64	-122.04	-112.67	-97.91	14271	1
lp[359,2]	-37.84	0.02	2.08	-42.71	-39.04	-37.53	-36.32	-34.72	13284	1
lp[359,3]	-35.78	0.02	2.10	-40.65	-36.99	-35.48	-34.26	-32.56	12839	1
lp[360,1]	-123.30	0.12	14.81	-155.59	-132.69	-122.04	-112.64	-97.82	14260	1
lp[360,2]	-37.63	0.02	2.08	-42.49	-38.83	-37.32	-36.11	-34.50	13279	1
lp[360,3]	-35.51	0.02	2.09	-40.37	-36.72	-35.21	-34.00	-32.30	12761	1
lp[361,1]	-123.18	0.12	14.90	-155.68	-132.64	-121.92	-112.46	-97.54	14219	1
lp[361,2]	-36.81	0.02	2.09	-41.68	-38.02	-36.50	-35.29	-33.67	13310	1
lp[361,3]	-35.00	0.02	2.10	-39.87	-36.22	-34.70	-33.48	-31.75	12609	1
lp[362,1]	-123.04	0.13	14.99	-155.68	-132.55	-121.77	-112.26	-97.23	14184	1
lp[362,2]	-35.99	0.02	2.09	-40.86	-37.19	-35.67	-34.46	-32.85	13338	1
lp[362,3]	-34.43	0.02	2.11	-39.33	-35.67	-34.14	-32.91	-31.14	12507	1
lp[363,1]	-122.74	0.13	15.10	-155.58	-132.32	-121.46	-111.89	-96.74	14142	1
lp[363,2]	-34.76	0.02	2.10	-39.67	-35.97	-34.44	-33.23	-31.59	13397	1
lp[363,3]	-33.60	0.02	2.12	-38.52	-34.85	-33.31	-32.07	-30.26	12405	1
lp[364,1]	-122.58	0.13	15.18	-155.56	-132.21	-121.30	-111.67	-96.41	14130	1
lp[364,2]	-34.12	0.02	2.10	-39.04	-35.34	-33.80	-32.59	-30.95	13395	1
lp[364,3]	-32.93	0.02	2.12	-37.83	-34.17	-32.63	-31.41	-29.62	12488	1
lp[365,1]	-123.34	0.13	15.15	-156.28	-132.95	-122.05	-112.44	-97.26	14131	1
lp[365,2]	-35.89	0.02	2.12	-40.84	-37.12	-35.57	-34.34	-32.67	13399	1
lp[365,3]	-33.58	0.02	2.10	-38.46	-34.80	-33.27	-32.05	-30.37	12986	1
lp[366,1]	-123.97	0.13	15.16	-156.95	-133.58	-122.68	-113.06	-97.89	14124	1
lp[366,2]	-37.00	0.02	2.11	-41.92	-38.24	-36.69	-35.45	-33.80	13332	1
lp[366,3]	-34.14	0.02	2.10	-39.03	-35.36	-33.83	-32.61	-30.94	13079	1
lp[367,1]	-123.82	0.13	15.26	-157.01	-133.48	-122.53	-112.85	-97.56	14069	1
lp[367,2]	-35.99	0.02	2.12	-40.92	-37.24	-35.67	-34.44	-32.78	13384	1
lp[367,3]	-33.62	0.02	2.12	-38.55	-34.86	-33.31	-32.09	-30.37	12871	1
lp[368,1]	-124.21	0.13	15.32	-157.50	-133.90	-122.92	-113.20	-97.81	14073	1
lp[368,2]	-35.94	0.02	2.14	-40.90	-37.20	-35.62	-34.38	-32.70	13421	1
lp[368,3]	-33.71	0.02	2.16	-38.73	-34.98	-33.41	-32.16	-30.38	12846	1
lp[369,1]	-125.43	0.13	15.29	-158.67	-135.09	-124.12	-114.43	-99.12	14061	1
lp[369,2]	-38.28	0.02	2.04	-43.11	-39.47	-37.97	-36.77	-35.22	12950	1
lp[369,3]	-35.02	0.02	2.11	-39.94	-36.24	-34.71	-33.48	-31.81	13056	1
lp[370,1]	-125.86	0.13	15.34	-159.22	-135.56	-124.55	-114.83	-99.48	14070	1
lp[370,2]	-38.59	0.02	2.03	-43.40	-39.77	-38.28	-37.10	-35.56	12882	1
lp[370,3]	-35.29	0.02	2.12	-40.26	-36.52	-34.98	-33.74	-32.06	12995	1
lp[371,1]	-126.81	0.13	15.31	-160.12	-136.48	-125.47	-115.80	-100.51	14047	1
lp[371,2]	-40.68	0.02	2.01	-45.48	-41.83	-40.36	-39.20	-37.67	12461	1
lp[371,3]	-36.41	0.02	2.09	-41.30	-37.64	-36.10	-34.88	-33.23	13167	1
lp[372,1]	-126.92	0.13	15.37	-160.40	-136.64	-125.60	-115.86	-100.51	14078	1
lp[372,2]	-40.40	0.02	2.02	-45.20	-41.56	-40.08	-38.92	-37.38	12477	1
lp[372,3]	-36.31	0.02	2.11	-41.25	-37.55	-36.01	-34.77	-33.10	13064	1
lp[373,1]	-126.49	0.13	15.46	-160.19	-136.30	-125.18	-115.36	-99.87	14167	1
lp[373,2]	-39.27	0.02	2.00	-44.05	-40.41	-38.95	-37.80	-36.28	12572	1
lp[373,3]	-35.59	0.02	2.11	-40.54	-36.82	-35.28	-34.05	-32.36	12780	1
lp[374,1]	-126.47	0.13	15.55	-160.40	-136.34	-125.16	-115.28	-99.70	14194	1
lp[374,2]	-38.43	0.02	2.03	-43.25	-39.60	-38.11	-36.94	-35.38	12778	1
lp[374,3]	-35.24	0.02	2.16	-40.28	-36.51	-34.93	-33.67	-31.90	12603	1
lp[375,1]	-126.97	0.13	15.59	-160.96	-136.86	-125.65	-115.75	-100.15	14204	1
lp[375,2]	-39.01	0.02	2.01	-43.80	-40.15	-38.69	-37.53	-36.01	12642	1
lp[375,3]	-35.63	0.02	2.16	-40.66	-36.89	-35.32	-34.06	-32.29	12600	1
lp[376,1]	-127.98	0.13	15.58	-161.97	-137.86	-126.65	-116.76	-101.17	14203	1
lp[376,2]	-40.71	0.02	1.96	-45.42	-41.82	-40.39	-39.28	-37.83	12161	1
lp[376,3]	-36.68	0.02	2.12	-41.63	-37.91	-36.37	-35.14	-33.44	12685	1
lp[377,1]	-130.71	0.13	15.42	-164.39	-140.48	-129.38	-119.61	-104.27	14170	1
lp[377,2]	-46.79	0.02	1.85	-51.32	-47.77	-46.45	-45.45	-44.20	10498	1
lp[377,3]	-40.17	0.02	1.98	-44.86	-41.29	-39.86	-38.72	-37.22	12782	1
lp[378,1]	-133.13	0.13	15.27	-166.51	-142.78	-131.78	-122.13	-107.05	14104	1
lp[378,2]	-52.33	0.02	2.01	-57.38	-53.32	-51.92	-50.88	-49.66	9607	1
lp[378,3]	-43.31	0.02	1.98	-47.92	-44.44	-43.03	-41.90	-40.22	12425	1
lp[379,1]	-134.45	0.13	15.22	-167.71	-144.05	-133.09	-123.48	-108.50	14074	1
lp[379,2]	-55.16	0.02	2.17	-60.71	-56.19	-54.68	-53.61	-52.35	9282	1

lp[379,3]	-44.93	0.02	2.01	-49.61	-46.09	-44.67	-43.49	-41.72	12104	1
lp[380,1]	-133.98	0.13	15.25	-167.31	-143.58	-132.62	-122.98	-108.01	14087	1
lp[380,2]	-55.03	0.02	2.37	-61.09	-56.15	-54.52	-53.33	-51.95	9337	1
lp[380,3]	-44.46	0.02	2.05	-49.24	-45.64	-44.19	-42.99	-41.21	12044	1
lp[381,1]	-132.35	0.13	15.38	-165.90	-142.08	-130.99	-121.26	-106.03	14234	1
lp[381,2]	-52.74	0.02	2.27	-58.57	-53.78	-52.23	-51.13	-49.87	9322	1
lp[381,3]	-42.56	0.02	1.93	-47.09	-43.65	-42.28	-41.19	-39.56	11875	1
lp[382,1]	-132.20	0.13	15.46	-165.94	-141.98	-130.85	-121.05	-105.74	14199	1
lp[382,2]	-51.93	0.02	2.26	-57.75	-52.96	-51.42	-50.32	-49.06	9245	1
lp[382,3]	-42.16	0.02	1.91	-46.67	-43.22	-41.87	-40.79	-39.24	11793	1
lp[383,1]	-131.97	0.13	15.54	-165.89	-141.79	-130.62	-120.77	-105.37	14201	1
lp[383,2]	-51.40	0.02	2.27	-57.23	-52.43	-50.89	-49.79	-48.53	9257	1
lp[383,3]	-41.76	0.02	1.89	-46.24	-42.81	-41.46	-40.40	-38.89	11684	1
lp[384,1]	-131.94	0.13	15.57	-165.99	-141.78	-130.57	-120.72	-105.29	14207	1
lp[384,2]	-51.53	0.02	2.34	-57.55	-52.60	-51.00	-49.86	-48.57	9336	1
lp[384,3]	-41.68	0.02	1.89	-46.16	-42.73	-41.38	-40.31	-38.81	11644	1
lp[385,1]	-131.36	0.13	15.69	-165.65	-141.27	-129.99	-120.07	-104.49	14219	1
lp[385,2]	-50.14	0.02	2.29	-56.03	-51.18	-49.61	-48.51	-47.25	9261	1
lp[385,3]	-40.80	0.02	1.85	-45.21	-41.82	-40.50	-39.46	-38.02	11430	1
lp[386,1]	-130.47	0.13	15.80	-165.07	-140.47	-129.12	-119.10	-103.33	14277	1
lp[386,2]	-48.51	0.02	2.22	-54.22	-49.51	-48.00	-46.93	-45.71	9233	1
lp[386,3]	-39.63	0.02	1.82	-44.01	-40.64	-39.33	-38.31	-36.93	11090	1
lp[387,1]	-129.37	0.13	15.95	-164.24	-139.47	-128.01	-117.90	-101.92	14357	1
lp[387,2]	-46.50	0.02	2.12	-51.92	-47.47	-46.02	-44.99	-43.83	9244	1
lp[387,3]	-38.20	0.02	1.82	-42.57	-39.21	-37.91	-36.88	-35.52	10982	1
lp[388,1]	-128.27	0.13	16.09	-163.34	-138.49	-126.89	-116.71	-100.51	14435	1
lp[388,2]	-44.49	0.02	2.04	-49.71	-45.44	-44.05	-43.03	-41.89	9257	1
lp[388,3]	-36.77	0.02	1.86	-41.24	-37.81	-36.48	-35.41	-34.05	10866	1
lp[389,1]	-127.16	0.13	16.24	-162.49	-137.48	-125.77	-115.50	-99.08	14512	1
lp[389,2]	-42.47	0.02	1.98	-47.45	-43.42	-42.05	-41.04	-39.91	9449	1
lp[389,3]	-35.34	0.02	1.94	-39.94	-36.43	-35.04	-33.91	-32.48	10729	1
lp[390,1]	-126.04	0.14	16.39	-161.58	-136.45	-124.64	-114.29	-97.70	14588	1
lp[390,2]	-40.41	0.02	1.96	-45.33	-41.38	-40.01	-39.00	-37.83	9652	1
lp[390,3]	-33.88	0.02	2.05	-38.71	-35.05	-33.57	-32.37	-30.83	10619	1
lp[391,1]	-125.76	0.14	16.46	-161.51	-136.20	-124.35	-113.94	-97.32	14597	1
lp[391,2]	-39.94	0.02	1.97	-44.87	-40.92	-39.54	-38.52	-37.35	9642	1
lp[391,3]	-33.46	0.02	2.08	-38.35	-34.64	-33.15	-31.92	-30.35	10591	1
lp[392,1]	-125.99	0.14	16.51	-161.84	-136.47	-124.58	-114.15	-97.46	14622	1
lp[392,2]	-40.10	0.02	1.99	-45.11	-41.07	-39.69	-38.66	-37.50	9585	1
lp[392,3]	-33.58	0.02	2.09	-38.50	-34.77	-33.27	-32.03	-30.44	10545	1
lp[393,1]	-126.24	0.14	16.57	-162.23	-136.76	-124.83	-114.36	-97.59	14632	1
lp[393,2]	-39.87	0.02	1.98	-44.85	-40.83	-39.45	-38.43	-37.27	9588	1
lp[393,3]	-33.61	0.02	2.12	-38.54	-34.82	-33.31	-32.04	-30.42	10460	1
lp[394,1]	-126.77	0.14	16.61	-162.85	-137.31	-125.36	-114.87	-98.05	14642	1
lp[394,2]	-40.45	0.02	2.02	-45.52	-41.42	-40.02	-38.99	-37.83	9556	1
lp[394,3]	-34.05	0.02	2.12	-38.98	-35.27	-33.75	-32.48	-30.86	10429	1
lp[395,1]	-127.42	0.14	16.59	-163.47	-137.93	-126.01	-115.52	-98.77	14622	1
lp[395,2]	-42.01	0.02	2.17	-47.60	-42.98	-41.52	-40.48	-39.31	9054	1
lp[395,3]	-34.84	0.02	2.05	-39.66	-36.01	-34.54	-33.32	-31.80	10495	1
lp[396,1]	-127.65	0.14	16.65	-163.81	-138.21	-126.24	-115.72	-98.90	14640	1
lp[396,2]	-41.85	0.02	2.17	-47.42	-42.82	-41.35	-40.31	-39.14	9059	1
lp[396,3]	-34.88	0.02	2.08	-39.73	-36.07	-34.59	-33.33	-31.77	10421	1
lp[397,1]	-127.55	0.14	16.75	-163.91	-138.17	-126.14	-115.56	-98.58	14667	1
lp[397,2]	-40.82	0.02	2.12	-46.27	-41.78	-40.35	-39.31	-38.15	9099	1
lp[397,3]	-34.45	0.02	2.14	-39.39	-35.69	-34.16	-32.85	-31.21	10294	1
lp[398,1]	-127.53	0.14	16.84	-164.10	-138.22	-126.10	-115.44	-98.40	14686	1
lp[398,2]	-39.88	0.02	2.08	-45.20	-40.83	-39.43	-38.40	-37.24	9121	1
lp[398,3]	-34.09	0.02	2.20	-39.13	-35.39	-33.79	-32.45	-30.71	10169	1
lp[399,1]	-128.49	0.14	16.83	-165.07	-139.17	-127.06	-116.41	-99.38	14685	1
lp[399,2]	-41.56	0.02	2.16	-47.12	-42.52	-41.07	-40.02	-38.86	9087	1
lp[399,3]	-35.13	0.02	2.14	-40.04	-36.40	-34.84	-33.53	-31.85	10217	1
lp[400,1]	-128.87	0.14	16.89	-165.56	-139.60	-127.44	-116.75	-99.67	14694	1
lp[400,2]	-41.66	0.02	2.17	-47.25	-42.63	-41.17	-40.12	-38.96	9091	1
lp[400,3]	-35.34	0.02	2.16	-40.29	-36.64	-35.05	-33.72	-32.01	10158	1
lp[401,1]	-128.75	0.14	16.98	-165.65	-139.55	-127.31	-116.58	-99.35	14722	1
lp[401,2]	-40.62	0.02	2.13	-46.08	-41.58	-40.15	-39.11	-37.95	9139	1
lp[401,3]	-34.88	0.02	2.23	-39.92	-36.24	-34.60	-33.20	-31.40	10020	1
lp[402,1]	-128.82	0.14	17.06	-165.89	-139.69	-127.37	-116.60	-99.30	14744	1
lp[402,2]	-40.05	0.02	2.11	-45.44	-41.01	-39.59	-38.55	-37.40	9166	1
lp[402,3]	-34.67	0.02	2.28	-39.77	-36.09	-34.41	-32.96	-31.09	9923	1
lp[403,1]	-129.20	0.14	17.06	-166.28	-140.08	-127.75	-116.98	-99.69	14793	1
lp[403,2]	-40.13	0.02	2.12	-45.57	-41.09	-39.66	-38.62	-37.46	9137	1
lp[403,3]	-34.86	0.02	2.29	-39.93	-36.31	-34.62	-33.13	-31.22	9719	1
lp[404,1]	-129.69	0.14	17.06	-166.77	-140.56	-128.24	-117.46	-100.17	14796	1
lp[404,2]	-41.12	0.02	2.23	-46.98	-42.12	-40.61	-39.55	-38.35	8852	1
lp[404,3]	-35.36	0.02	2.23	-40.31	-36.77	-35.14	-33.68	-31.81	9847	1
lp[405,1]	-130.19	0.14	17.06	-167.29	-141.07	-128.74	-117.96	-100.66	14801	1

lp[405,2]	-41.88	0.02	2.30	-47.88	-42.89	-41.34	-40.25	-39.03	8791	1
lp[405,3]	-35.83	0.02	2.21	-40.73	-37.22	-35.61	-34.16	-32.30	9868	1
lp[406,1]	-129.82	0.14	17.09	-166.97	-140.70	-128.37	-117.58	-100.25	14855	1
lp[406,2]	-40.94	0.02	2.28	-46.88	-41.95	-40.41	-39.34	-38.12	8867	1
lp[406,3]	-35.20	0.02	2.26	-40.17	-36.66	-34.99	-33.48	-31.56	9597	1
lp[407,1]	-130.03	0.14	17.09	-167.18	-140.91	-128.58	-117.80	-100.46	14870	1
lp[407,2]	-41.16	0.02	2.33	-47.20	-42.18	-40.61	-39.52	-38.28	8794	1
lp[407,3]	-35.31	0.02	2.26	-40.26	-36.76	-35.11	-33.59	-31.65	9545	1
lp[408,1]	-130.01	0.14	17.11	-167.20	-140.91	-128.57	-117.77	-100.40	14897	1
lp[408,2]	-41.01	0.03	2.37	-47.22	-42.05	-40.45	-39.35	-38.10	8719	1
lp[408,3]	-35.15	0.02	2.27	-40.12	-36.63	-34.96	-33.43	-31.46	9452	1
lp[409,1]	-129.81	0.14	17.12	-166.98	-140.72	-128.38	-117.58	-100.18	14924	1
lp[409,2]	-40.06	0.02	2.32	-46.11	-41.07	-39.51	-38.42	-37.20	8761	1
lp[409,3]	-34.65	0.02	2.32	-39.63	-36.19	-34.47	-32.87	-30.85	9179	1
lp[410,1]	-129.49	0.14	17.14	-166.67	-140.41	-128.05	-117.25	-99.81	14962	1
lp[410,2]	-38.92	0.02	2.27	-44.82	-39.92	-38.40	-37.32	-36.12	8856	1
lp[410,3]	-33.99	0.03	2.38	-39.04	-35.60	-33.85	-32.16	-30.07	8933	1
lp[411,1]	-129.26	0.14	17.15	-166.44	-140.19	-127.84	-117.02	-99.56	14985	1
lp[411,2]	-37.83	0.02	2.22	-43.62	-38.82	-37.33	-36.26	-35.07	8925	1
lp[411,3]	-33.40	0.03	2.42	-38.44	-35.07	-33.28	-31.53	-29.38	8733	1
lp[412,1]	-128.97	0.14	17.17	-166.16	-139.91	-127.56	-116.72	-99.23	15026	1
lp[412,2]	-36.89	0.02	2.19	-42.60	-37.87	-36.40	-35.34	-34.15	9024	1
lp[412,3]	-32.78	0.03	2.43	-37.82	-34.46	-32.70	-30.88	-28.67	8628	1
lp[413,1]	-128.80	0.14	17.18	-166.02	-139.74	-127.39	-116.52	-99.02	15055	1
lp[413,2]	-36.07	0.02	2.17	-41.68	-37.04	-35.59	-34.53	-33.34	9100	1
lp[413,3]	-32.24	0.03	2.43	-37.23	-33.93	-32.21	-30.37	-28.08	8557	1
lp[414,1]	-128.37	0.14	17.21	-165.65	-139.33	-126.94	-116.07	-98.56	15107	1
lp[414,2]	-34.86	0.02	2.13	-40.32	-35.84	-34.40	-33.34	-32.15	9291	1
lp[414,3]	-31.41	0.03	2.45	-36.38	-33.09	-31.43	-29.53	-27.13	8489	1
lp[415,1]	-127.88	0.14	17.24	-165.24	-138.84	-126.47	-115.54	-97.96	15163	1
lp[415,2]	-33.49	0.02	2.09	-38.80	-34.46	-33.05	-31.99	-30.79	9490	1
lp[415,3]	-30.45	0.03	2.46	-35.43	-32.12	-30.50	-28.57	-26.08	8447	1
lp[416,1]	-127.92	0.14	17.24	-165.33	-138.85	-126.50	-115.57	-98.02	15243	1
lp[416,2]	-32.85	0.02	2.07	-38.08	-33.82	-32.42	-31.36	-30.15	9639	1
lp[416,3]	-30.02	0.03	2.44	-34.94	-31.65	-30.09	-28.21	-25.65	8426	1
lp[417,1]	-128.29	0.14	17.25	-165.73	-139.22	-126.88	-115.93	-98.38	15289	1
lp[417,2]	-33.12	0.02	2.11	-38.48	-34.10	-32.67	-31.60	-30.39	9499	1
lp[417,3]	-30.07	0.03	2.34	-34.86	-31.59	-30.10	-28.39	-25.85	8566	1
lp[418,1]	-128.83	0.14	17.25	-166.29	-139.76	-127.43	-116.46	-98.90	15307	1
lp[418,2]	-33.99	0.02	2.23	-39.75	-34.98	-33.50	-32.41	-31.19	9015	1
lp[418,3]	-30.45	0.02	2.22	-35.12	-31.85	-30.41	-28.90	-26.43	8783	1
lp[419,1]	-130.01	0.14	17.25	-167.44	-140.94	-128.60	-117.65	-100.09	15265	1
lp[419,2]	-36.39	0.03	2.52	-43.15	-37.44	-35.77	-34.64	-33.40	8294	1
lp[419,3]	-31.77	0.02	2.05	-36.24	-33.01	-31.66	-30.40	-28.13	9210	1
lp[420,1]	-130.00	0.14	17.25	-167.45	-140.95	-128.61	-117.65	-100.05	15349	1
lp[420,2]	-35.50	0.03	2.44	-41.98	-36.51	-34.91	-33.79	-32.57	8454	1
lp[420,3]	-31.41	0.02	2.13	-35.97	-32.72	-31.32	-29.95	-27.55	8902	1
lp[421,1]	-130.03	0.14	17.25	-167.50	-141.00	-128.65	-117.67	-100.07	15427	1
lp[421,2]	-34.61	0.03	2.36	-40.81	-35.60	-34.06	-32.95	-31.73	8646	1
lp[421,3]	-31.04	0.02	2.21	-35.66	-32.44	-31.00	-29.50	-27.01	8663	1
lp[422,1]	-130.00	0.14	17.26	-167.51	-140.97	-128.64	-117.64	-100.04	15512	1
lp[422,2]	-33.68	0.02	2.29	-39.66	-34.67	-33.17	-32.07	-30.84	8882	1
lp[422,3]	-30.59	0.02	2.28	-35.28	-32.04	-30.59	-29.00	-26.39	8513	1
lp[423,1]	-131.66	0.14	17.25	-169.12	-142.62	-130.29	-119.30	-101.70	15437	1
lp[423,2]	-37.18	0.03	2.69	-44.55	-38.25	-36.49	-35.33	-34.06	8070	1
lp[423,3]	-32.48	0.02	2.00	-36.87	-33.67	-32.35	-31.15	-28.89	9182	1
lp[424,1]	-132.18	0.14	17.25	-169.64	-143.14	-130.82	-119.81	-102.22	15474	1
lp[424,2]	-37.63	0.03	2.76	-45.17	-38.71	-36.92	-35.73	-34.46	8004	1
lp[424,3]	-32.86	0.02	2.01	-37.25	-34.05	-32.73	-31.52	-29.25	9131	1
lp[425,1]	-132.19	0.14	17.26	-169.68	-143.16	-130.82	-119.83	-102.19	15555	1
lp[425,2]	-36.75	0.03	2.67	-44.03	-37.81	-36.08	-34.92	-33.65	8127	1
lp[425,3]	-32.51	0.02	2.10	-37.03	-33.80	-32.43	-31.11	-28.69	8845	1
lp[426,1]	-132.27	0.14	17.27	-169.78	-143.27	-130.92	-119.88	-102.29	15627	1
lp[426,2]	-36.51	0.03	2.69	-43.88	-37.57	-35.83	-34.66	-33.40	8102	1
lp[426,3]	-32.36	0.02	2.13	-36.92	-33.67	-32.29	-30.94	-28.48	8772	1
lp[427,1]	-132.82	0.14	17.28	-170.28	-143.82	-131.46	-120.43	-102.81	15659	1
lp[427,2]	-37.13	0.03	2.79	-44.78	-38.19	-36.40	-35.22	-33.93	7987	1
lp[427,3]	-32.77	0.02	2.10	-37.28	-34.05	-32.68	-31.36	-28.94	8825	1
lp[428,1]	-133.63	0.14	17.27	-171.09	-144.64	-132.27	-121.25	-103.63	15655	1
lp[428,2]	-38.80	0.03	2.96	-46.93	-39.90	-38.01	-36.80	-35.48	7852	1
lp[428,3]	-33.66	0.02	2.01	-38.06	-34.85	-33.53	-32.32	-30.04	9039	1
lp[429,1]	-133.38	0.14	17.30	-170.87	-144.40	-132.00	-120.97	-103.35	15697	1
lp[429,2]	-38.10	0.03	2.95	-46.23	-39.20	-37.32	-36.11	-34.78	7864	1
lp[429,3]	-33.17	0.02	2.06	-37.64	-34.42	-33.07	-31.81	-29.44	8907	1
lp[430,1]	-133.25	0.14	17.32	-170.78	-144.28	-131.85	-120.81	-103.20	15730	1
lp[430,2]	-37.52	0.03	2.94	-45.63	-38.61	-36.74	-35.52	-34.21	7875	1
lp[430,3]	-32.80	0.02	2.10	-37.30	-34.07	-32.71	-31.40	-28.98	8803	1

lp[431,1]	-133.10	0.14	17.34	-170.69	-144.17	-131.71	-120.64	-103.00	15764	1
lp[431,2]	-37.21	0.03	2.99	-45.49	-38.32	-36.41	-35.19	-33.87	7833	1
lp[431,3]	-32.47	0.02	2.11	-37.00	-33.75	-32.39	-31.07	-28.63	8786	1
lp[432,1]	-133.05	0.14	17.35	-170.69	-144.10	-131.66	-120.59	-102.93	15778	1
lp[432,2]	-36.45	0.03	2.95	-44.55	-37.53	-35.66	-34.45	-33.14	7853	1
lp[432,3]	-32.10	0.02	2.15	-36.68	-33.43	-32.05	-30.65	-28.13	8667	1
lp[433,1]	-133.29	0.14	17.36	-170.95	-144.34	-131.89	-120.83	-103.17	15790	1
lp[433,2]	-36.53	0.03	2.98	-44.77	-37.63	-35.74	-34.52	-33.21	7835	1
lp[433,3]	-32.13	0.02	2.14	-36.69	-33.45	-32.09	-30.71	-28.19	8699	1
lp[434,1]	-133.71	0.14	17.36	-171.37	-144.74	-132.31	-121.25	-103.59	15795	1
lp[434,2]	-36.94	0.03	3.02	-45.31	-38.05	-36.13	-34.90	-33.57	7824	1
lp[434,3]	-32.39	0.02	2.12	-36.92	-33.69	-32.33	-30.98	-28.48	8752	1
lp[435,1]	-133.51	0.14	17.38	-171.19	-144.57	-132.12	-121.05	-103.39	15818	1
lp[435,2]	-35.93	0.03	2.97	-44.10	-37.03	-35.15	-33.92	-32.61	7856	1
lp[435,3]	-31.84	0.02	2.18	-36.43	-33.18	-31.81	-30.38	-27.79	8659	1
lp[436,1]	-133.21	0.14	17.39	-170.96	-144.29	-131.81	-120.75	-103.05	15848	1
lp[436,2]	-34.70	0.03	2.90	-42.66	-35.78	-33.94	-32.73	-31.42	7916	1
lp[436,3]	-31.11	0.02	2.24	-35.77	-32.50	-31.11	-29.61	-26.91	8614	1
lp[437,1]	-132.94	0.14	17.41	-170.71	-144.04	-131.53	-120.48	-102.74	15874	1
lp[437,2]	-33.50	0.03	2.84	-41.31	-34.59	-32.77	-31.56	-30.25	7987	1
lp[437,3]	-30.36	0.02	2.27	-35.07	-31.77	-30.38	-28.85	-26.06	8654	1
lp[438,1]	-132.71	0.14	17.43	-170.39	-143.83	-131.31	-120.25	-102.46	15902	1
lp[438,2]	-32.47	0.03	2.80	-40.11	-33.55	-31.75	-30.55	-29.24	8064	1
lp[438,3]	-29.63	0.02	2.26	-34.33	-31.01	-29.63	-28.15	-25.29	8779	1
lp[439,1]	-133.49	0.14	17.42	-171.20	-144.60	-132.09	-121.03	-103.26	15894	1
lp[439,2]	-34.18	0.03	2.97	-42.35	-35.26	-33.39	-32.17	-30.85	7856	1
lp[439,3]	-30.32	0.02	2.07	-34.85	-31.54	-30.21	-29.01	-26.44	9212	1
lp[440,1]	-133.84	0.14	17.43	-171.55	-144.98	-132.44	-121.37	-103.61	15946	1
lp[440,2]	-34.21	0.03	2.99	-42.45	-35.29	-33.42	-32.19	-30.87	7850	1
lp[440,3]	-30.41	0.02	2.08	-34.94	-31.64	-30.31	-29.10	-26.50	9162	1
lp[441,1]	-134.67	0.14	17.43	-172.37	-145.80	-133.28	-122.20	-104.44	15954	1
lp[441,2]	-35.50	0.04	3.17	-44.28	-36.62	-34.63	-33.37	-32.03	7721	1
lp[441,3]	-31.19	0.02	2.01	-35.67	-32.36	-31.05	-29.91	-27.46	9324	1
lp[442,1]	-134.62	0.14	17.45	-172.34	-145.78	-133.20	-122.15	-104.35	16042	1
lp[442,2]	-34.80	0.04	3.11	-43.40	-35.90	-33.96	-32.71	-31.38	7780	1
lp[442,3]	-30.82	0.02	2.08	-35.33	-32.04	-30.71	-29.51	-26.93	9154	1
lp[443,1]	-134.63	0.14	17.47	-172.37	-145.78	-133.19	-122.19	-104.27	16123	1
lp[443,2]	-34.22	0.03	3.07	-42.70	-35.30	-33.40	-32.15	-30.82	7830	1
lp[443,3]	-30.50	0.02	2.12	-35.06	-31.76	-30.42	-29.16	-26.48	9042	1
lp[444,1]	-135.89	0.14	17.46	-173.60	-147.04	-134.45	-123.43	-105.59	16068	1
lp[444,2]	-36.87	0.04	3.52	-46.75	-38.04	-35.85	-34.54	-33.14	7507	1
lp[444,3]	-31.93	0.02	1.96	-36.36	-33.05	-31.75	-30.67	-28.40	9481	1
lp[445,1]	-136.19	0.14	17.46	-173.90	-147.34	-134.74	-123.75	-105.82	16124	1
lp[445,2]	-36.80	0.04	3.52	-46.71	-37.96	-35.78	-34.46	-33.06	7510	1
lp[445,3]	-32.01	0.02	1.99	-36.45	-33.15	-31.85	-30.73	-28.39	9365	1
lp[446,1]	-136.10	0.14	17.48	-173.83	-147.25	-134.67	-123.62	-105.73	16215	1
lp[446,2]	-35.82	0.04	3.41	-45.40	-36.96	-34.85	-33.56	-32.19	7578	1
lp[446,3]	-31.55	0.02	2.07	-36.05	-32.76	-31.44	-30.24	-27.70	9133	1
lp[447,1]	-136.25	0.14	17.49	-173.96	-147.41	-134.82	-123.77	-105.82	16285	1
lp[447,2]	-35.31	0.04	3.35	-44.72	-36.44	-34.37	-33.08	-31.73	7619	1
lp[447,3]	-31.36	0.02	2.12	-35.91	-32.61	-31.27	-30.01	-27.37	9019	1
lp[448,1]	-136.35	0.14	17.51	-174.06	-147.54	-134.93	-123.86	-105.89	16356	1
lp[448,2]	-34.95	0.04	3.34	-44.33	-36.07	-34.02	-32.73	-31.38	7636	1
lp[448,3]	-31.15	0.02	2.14	-35.73	-32.42	-31.07	-29.79	-27.09	8991	1
lp[449,1]	-136.67	0.14	17.52	-174.36	-147.86	-135.28	-124.18	-106.18	16409	1
lp[449,2]	-34.90	0.04	3.35	-44.29	-36.02	-33.97	-32.68	-31.33	7642	1
lp[449,3]	-31.17	0.02	2.14	-35.76	-32.43	-31.09	-29.81	-27.09	9012	1
lp[450,1]	-136.83	0.14	17.53	-174.56	-148.02	-135.45	-124.33	-106.35	16476	1
lp[450,2]	-34.57	0.04	3.33	-43.89	-35.67	-33.64	-32.36	-31.00	7667	1
lp[450,3]	-30.98	0.02	2.16	-35.58	-32.26	-30.91	-29.62	-26.86	9007	1
lp[451,1]	-137.84	0.14	17.52	-175.54	-149.02	-136.44	-125.34	-107.36	16429	1
lp[451,2]	-36.75	0.04	3.77	-47.38	-37.93	-35.63	-34.28	-32.86	7378	1
lp[451,3]	-32.06	0.02	1.99	-36.56	-33.20	-31.89	-30.78	-28.43	9429	1
lp[452,1]	-138.99	0.14	17.51	-176.66	-150.17	-137.58	-126.50	-108.53	16412	1
lp[452,2]	-39.36	0.05	4.08	-50.88	-40.61	-38.10	-36.69	-35.22	7295	1
lp[452,3]	-33.46	0.02	1.89	-37.84	-34.51	-33.23	-32.19	-30.19	9646	1
lp[453,1]	-139.46	0.14	17.51	-177.14	-150.65	-138.07	-126.98	-109.00	16418	1
lp[453,2]	-40.01	0.05	4.17	-51.78	-41.28	-38.71	-37.29	-35.79	7290	1
lp[453,3]	-33.87	0.02	1.88	-38.26	-34.92	-33.64	-32.61	-30.64	9635	1
lp[454,1]	-139.20	0.14	17.53	-176.94	-150.38	-137.80	-126.70	-108.69	16444	1
lp[454,2]	-38.83	0.05	4.08	-50.37	-40.08	-37.57	-36.16	-34.69	7299	1
lp[454,3]	-33.26	0.02	1.94	-37.69	-34.36	-33.06	-31.99	-29.82	9473	1
lp[455,1]	-139.72	0.14	17.53	-177.48	-150.91	-138.33	-127.22	-109.22	16447	1
lp[455,2]	-39.89	0.05	4.25	-51.88	-41.17	-38.56	-37.11	-35.60	7272	1
lp[455,3]	-33.81	0.02	1.91	-38.21	-34.88	-33.60	-32.54	-30.49	9524	1
lp[456,1]	-141.89	0.14	17.48	-179.53	-153.03	-140.47	-129.40	-111.42	16380	1
lp[456,2]	-45.22	0.06	4.96	-59.23	-46.74	-43.60	-41.96	-40.24	7214	1

lp[456,3]	-36.70	0.02	1.77	-40.98	-37.66	-36.41	-35.43	-34.06	9739	1
lp[457,1]	-143.86	0.14	17.47	-181.45	-155.01	-142.44	-131.38	-113.42	16359	1
lp[457,2]	-49.72	0.06	5.45	-64.87	-51.52	-47.96	-46.08	-44.17	7321	1
lp[457,3]	-39.25	0.02	1.76	-43.52	-40.20	-38.94	-37.96	-36.71	9717	1
lp[458,1]	-143.43	0.14	17.50	-181.10	-154.62	-142.02	-130.94	-112.96	16406	1
lp[458,2]	-48.46	0.06	5.35	-63.39	-50.20	-46.72	-44.90	-43.04	7319	1
lp[458,3]	-38.51	0.02	1.76	-42.79	-39.45	-38.21	-37.24	-35.97	9786	1
lp[459,1]	-143.28	0.14	17.51	-181.00	-154.46	-141.87	-130.78	-112.78	16426	1
lp[459,2]	-47.50	0.06	5.27	-62.28	-49.20	-45.79	-44.01	-42.18	7299	1
lp[459,3]	-38.06	0.02	1.76	-42.35	-39.00	-37.77	-36.79	-35.47	9746	1
lp[460,1]	-143.05	0.14	17.53	-180.80	-154.25	-141.66	-130.54	-112.58	16447	1
lp[460,2]	-46.36	0.06	5.17	-60.88	-48.00	-44.68	-42.95	-41.16	7278	1
lp[460,3]	-37.51	0.02	1.79	-41.80	-38.48	-37.24	-36.24	-34.75	9657	1
lp[461,1]	-143.54	0.14	17.53	-181.29	-154.74	-142.14	-131.02	-113.06	16449	1
lp[461,2]	-47.41	0.06	5.37	-62.42	-49.12	-45.66	-43.85	-42.01	7281	1
lp[461,3]	-38.05	0.02	1.78	-42.33	-39.01	-37.77	-36.78	-35.38	9653	1
lp[462,1]	-144.74	0.14	17.52	-182.47	-155.93	-143.34	-132.24	-114.26	16428	1
lp[462,2]	-50.18	0.07	5.75	-66.17	-52.10	-48.31	-46.33	-44.35	7346	1
lp[462,3]	-39.58	0.02	1.75	-43.84	-40.52	-39.27	-38.31	-37.06	9682	1
lp[463,1]	-145.36	0.14	17.53	-183.17	-156.55	-143.95	-132.85	-114.86	16417	1
lp[463,2]	-51.19	0.07	5.76	-67.18	-53.12	-49.33	-47.34	-45.35	7407	1
lp[463,3]	-40.21	0.02	1.75	-44.46	-41.15	-39.90	-38.93	-37.70	9688	1
lp[464,1]	-146.12	0.14	17.53	-183.93	-157.30	-144.70	-133.60	-115.65	16414	1
lp[464,2]	-52.66	0.07	5.91	-69.08	-54.63	-50.73	-48.70	-46.68	7388	1
lp[464,3]	-41.06	0.02	1.74	-45.33	-41.99	-40.75	-39.78	-38.57	9629	1
lp[465,1]	-148.81	0.14	17.35	-186.33	-159.85	-147.36	-136.43	-118.73	16381	1
lp[465,2]	-58.86	0.07	6.34	-76.35	-61.00	-56.75	-54.59	-52.45	7473	1
lp[465,3]	-44.57	0.02	1.79	-48.88	-45.54	-44.27	-43.28	-41.95	9373	1
lp[466,1]	-152.37	0.13	17.15	-189.51	-163.25	-150.95	-140.10	-122.70	16394	1
lp[466,2]	-66.94	0.08	6.80	-85.59	-69.38	-64.75	-62.30	-59.82	7776	1
lp[466,3]	-49.21	0.02	2.03	-53.87	-50.37	-48.96	-47.81	-45.88	9247	1
lp[467,1]	-153.61	0.13	17.12	-190.70	-164.46	-152.18	-141.37	-124.02	16389	1
lp[467,2]	-69.34	0.08	6.96	-88.39	-71.88	-67.12	-64.58	-61.98	7868	1
lp[467,3]	-50.66	0.02	2.10	-55.44	-51.88	-50.43	-49.22	-47.17	9198	1
lp[468,1]	-153.46	0.13	17.21	-190.73	-164.38	-152.04	-141.14	-123.69	16419	1
lp[468,2]	-68.47	0.08	6.92	-87.41	-70.98	-66.26	-63.74	-61.17	7873	1
lp[468,3]	-50.23	0.02	2.04	-54.94	-51.40	-49.97	-48.83	-46.91	9301	1
lp[469,1]	-154.41	0.13	17.16	-191.62	-165.29	-152.97	-142.12	-124.76	16394	1
lp[469,2]	-70.70	0.08	7.17	-90.42	-73.32	-68.41	-65.79	-63.13	7797	1
lp[469,3]	-51.43	0.02	2.11	-56.21	-52.66	-51.21	-49.97	-47.91	9086	1
lp[470,1]	-154.37	0.13	17.24	-191.75	-165.31	-152.94	-142.03	-124.59	16422	1
lp[470,2]	-70.20	0.08	7.16	-89.88	-72.79	-67.91	-65.30	-62.65	7797	1
lp[470,3]	-51.18	0.02	2.06	-55.91	-52.37	-50.94	-49.75	-47.81	9178	1
lp[471,1]	-154.50	0.14	17.32	-192.03	-165.50	-153.08	-142.11	-124.61	16421	1
lp[471,2]	-69.55	0.08	7.11	-89.16	-72.13	-67.27	-64.69	-62.08	7773	1
lp[471,3]	-51.02	0.02	2.00	-55.66	-52.17	-50.75	-49.63	-47.83	9195	1
lp[472,1]	-154.59	0.14	17.40	-192.24	-165.66	-153.14	-142.15	-124.50	16423	1
lp[472,2]	-68.83	0.08	7.06	-88.32	-71.38	-66.54	-64.01	-61.46	7754	1
lp[472,3]	-50.81	0.02	1.93	-55.35	-51.90	-50.53	-49.46	-47.80	9236	1
lp[473,1]	-154.61	0.14	17.49	-192.42	-165.73	-153.17	-142.12	-124.37	16438	1
lp[473,2]	-68.15	0.08	7.02	-87.54	-70.66	-65.87	-63.37	-60.86	7750	1
lp[473,3]	-50.56	0.02	1.88	-55.02	-51.60	-50.26	-49.23	-47.69	9315	1
lp[474,1]	-155.13	0.14	17.50	-192.98	-166.25	-153.68	-142.63	-124.89	16439	1
lp[474,2]	-69.20	0.08	7.17	-89.00	-71.77	-66.85	-64.31	-61.72	7718	1
lp[474,3]	-51.13	0.02	1.90	-55.63	-52.19	-50.84	-49.78	-48.20	9232	1
lp[475,1]	-155.58	0.14	17.55	-193.51	-166.73	-154.13	-143.04	-125.26	16440	1
lp[475,2]	-69.42	0.08	7.19	-89.26	-72.00	-67.07	-64.52	-61.93	7722	1
lp[475,3]	-51.43	0.02	1.88	-55.90	-52.47	-51.13	-50.09	-48.58	9249	1
lp[476,1]	-155.67	0.14	17.60	-193.74	-166.87	-154.21	-143.11	-125.26	16420	1
lp[476,2]	-69.35	0.08	7.20	-89.19	-71.93	-67.00	-64.44	-61.84	7733	1
lp[476,3]	-51.39	0.02	1.87	-55.85	-52.42	-51.09	-50.06	-48.58	9245	1
lp[477,1]	-155.64	0.14	17.67	-193.84	-166.88	-154.16	-143.03	-125.06	16390	1
lp[477,2]	-68.88	0.08	7.19	-88.72	-71.47	-66.54	-63.98	-61.38	7727	1
lp[477,3]	-51.15	0.02	1.85	-55.59	-52.18	-50.84	-49.82	-48.41	9243	1
lp[478,1]	-155.43	0.14	17.76	-193.91	-166.72	-153.93	-142.75	-124.70	16344	1
lp[478,2]	-67.86	0.08	7.18	-87.66	-70.45	-65.52	-62.97	-60.40	7695	1
lp[478,3]	-50.64	0.02	1.83	-55.06	-51.65	-50.32	-49.31	-48.00	9244	1
lp[479,1]	-155.33	0.14	17.85	-193.98	-166.66	-153.82	-142.59	-124.46	16305	1
lp[479,2]	-67.14	0.08	7.17	-86.90	-69.72	-64.78	-62.26	-59.70	7676	1
lp[479,3]	-50.29	0.02	1.81	-54.71	-51.29	-49.97	-48.97	-47.71	9253	1
lp[480,1]	-156.26	0.14	17.80	-194.84	-167.55	-154.75	-143.55	-125.48	16314	1
lp[480,2]	-69.32	0.08	7.28	-89.34	-71.94	-66.95	-64.35	-61.73	7739	1
lp[480,3]	-51.45	0.02	1.84	-55.89	-52.47	-51.14	-50.12	-48.77	9162	1
lp[481,1]	-156.18	0.14	17.88	-194.92	-167.53	-154.65	-143.42	-125.27	16282	1
lp[481,2]	-68.72	0.08	7.27	-88.70	-71.33	-66.35	-63.76	-61.15	7728	1
lp[481,3]	-51.15	0.02	1.82	-55.57	-52.15	-50.82	-49.82	-48.53	9178	1
lp[482,1]	-155.87	0.14	17.98	-194.77	-167.30	-154.31	-143.04	-124.79	16240	1

lp[482,2]	-67.51	0.08	7.24	-87.42	-70.10	-65.14	-62.57	-59.98	7696	1
lp[482,3]	-50.51	0.02	1.81	-54.94	-51.50	-50.18	-49.19	-47.94	9220	1
lp[483,1]	-155.50	0.14	18.09	-194.63	-167.02	-153.94	-142.59	-124.25	16204	1
lp[483,2]	-66.24	0.08	7.21	-86.13	-68.82	-63.86	-61.33	-58.76	7668	1
lp[483,3]	-49.82	0.02	1.81	-54.25	-50.79	-49.48	-48.51	-47.28	9294	1
lp[484,1]	-155.72	0.14	18.14	-194.96	-167.28	-154.18	-142.77	-124.41	16181	1
lp[484,2]	-66.35	0.08	7.22	-86.23	-68.94	-63.98	-61.43	-58.86	7683	1
lp[484,3]	-49.93	0.02	1.81	-54.37	-50.89	-49.59	-48.61	-47.39	9301	1
lp[485,1]	-155.72	0.14	18.20	-195.13	-167.31	-154.18	-142.73	-124.30	16168	1
lp[485,2]	-66.22	0.08	7.23	-86.12	-68.81	-63.85	-61.29	-58.72	7694	1
lp[485,3]	-49.80	0.02	1.81	-54.25	-50.77	-49.46	-48.48	-47.25	9328	1
lp[486,1]	-155.43	0.14	18.29	-195.00	-167.08	-153.85	-142.38	-123.81	16146	1
lp[486,2]	-65.28	0.08	7.22	-85.16	-67.87	-62.91	-60.36	-57.79	7679	1
lp[486,3]	-49.25	0.02	1.83	-53.72	-50.22	-48.91	-47.91	-46.66	9408	1
lp[487,1]	-155.50	0.14	18.36	-195.22	-167.21	-153.93	-142.40	-123.76	16100	1
lp[487,2]	-64.81	0.08	7.21	-84.71	-67.39	-62.43	-59.89	-57.32	7659	1
lp[487,3]	-49.09	0.02	1.84	-53.59	-50.08	-48.76	-47.74	-46.47	9416	1
lp[488,1]	-156.37	0.14	18.37	-196.13	-168.08	-154.80	-143.26	-124.63	16101	1
lp[488,2]	-66.14	0.08	7.31	-86.27	-68.79	-63.75	-61.16	-58.51	7692	1
lp[488,3]	-49.99	0.02	1.85	-54.50	-50.99	-49.66	-48.64	-47.37	9404	1
lp[489,1]	-157.26	0.14	18.37	-197.05	-168.98	-155.69	-144.15	-125.52	16101	1
lp[489,2]	-67.58	0.08	7.40	-87.92	-70.28	-65.19	-62.53	-59.82	7741	1
lp[489,3]	-50.93	0.02	1.85	-55.44	-51.93	-50.60	-49.58	-48.31	9394	1
lp[490,1]	-157.39	0.15	18.44	-197.33	-169.15	-155.81	-144.23	-125.53	16118	1
lp[490,2]	-67.32	0.08	7.40	-87.66	-70.01	-64.93	-62.28	-59.57	7740	1
lp[490,3]	-50.87	0.02	1.85	-55.38	-51.88	-50.54	-49.52	-48.24	9430	1
lp[491,1]	-157.45	0.15	18.52	-197.48	-169.27	-155.87	-144.23	-125.43	16135	1
lp[491,2]	-66.79	0.08	7.37	-87.06	-69.47	-64.40	-61.77	-59.09	7734	1
lp[491,3]	-50.69	0.02	1.85	-55.18	-51.70	-50.36	-49.33	-48.02	9471	1
lp[492,1]	-157.28	0.15	18.62	-197.47	-169.17	-155.70	-144.00	-125.09	16161	1
lp[492,2]	-65.80	0.08	7.30	-85.88	-68.43	-63.42	-60.82	-58.20	7729	1
lp[492,3]	-50.22	0.02	1.87	-54.74	-51.25	-49.91	-48.85	-47.50	9527	1
lp[493,1]	-157.03	0.15	18.72	-197.43	-168.98	-155.43	-143.67	-124.61	16193	1
lp[493,2]	-64.67	0.08	7.22	-84.56	-67.26	-62.31	-59.74	-57.17	7729	1
lp[493,3]	-49.65	0.02	1.90	-54.21	-50.70	-49.36	-48.26	-46.83	9574	1
lp[494,1]	-156.88	0.15	18.82	-197.51	-168.90	-155.30	-143.47	-124.27	16212	1
lp[494,2]	-63.61	0.08	7.15	-83.34	-66.17	-61.26	-58.74	-56.20	7718	1
lp[494,3]	-49.18	0.02	1.94	-53.75	-50.26	-48.90	-47.77	-46.24	9567	1
lp[495,1]	-156.77	0.15	18.91	-197.60	-168.84	-155.18	-143.29	-123.96	16241	1
lp[495,2]	-62.93	0.08	7.12	-82.59	-65.46	-60.59	-58.09	-55.57	7719	1
lp[495,3]	-48.83	0.02	1.98	-53.47	-49.96	-48.56	-47.39	-45.77	9571	1
lp[496,1]	-156.84	0.15	18.99	-197.81	-168.96	-155.25	-143.32	-123.88	16255	1
lp[496,2]	-62.42	0.08	7.09	-82.05	-64.93	-60.09	-57.60	-55.10	7712	1
lp[496,3]	-48.66	0.02	2.02	-53.33	-49.82	-48.40	-47.19	-45.50	9541	1
lp[497,1]	-157.27	0.15	19.04	-198.30	-169.42	-155.67	-143.71	-124.21	16252	1
lp[497,2]	-62.45	0.08	7.09	-82.07	-64.95	-60.12	-57.64	-55.14	7710	1
lp[497,3]	-48.89	0.02	2.05	-53.62	-50.07	-48.63	-47.40	-45.65	9500	1
lp[498,1]	-158.10	0.15	19.03	-199.13	-170.23	-156.49	-144.54	-125.10	16246	1
lp[498,2]	-64.12	0.08	7.28	-84.22	-66.70	-61.71	-59.16	-56.59	7696	1
lp[498,3]	-49.85	0.02	2.01	-54.52	-51.00	-49.58	-48.38	-46.72	9504	1
lp[499,1]	-159.31	0.15	19.00	-200.31	-171.43	-157.70	-145.77	-126.36	16245	1
lp[499,2]	-66.34	0.08	7.45	-86.88	-69.02	-63.92	-61.26	-58.57	7738	1
lp[499,3]	-51.23	0.02	1.98	-55.88	-52.35	-50.96	-49.79	-48.22	9530	1
lp[500,1]	-162.91	0.15	18.65	-203.26	-174.76	-161.31	-149.56	-130.72	16312	1
lp[500,2]	-75.43	0.09	7.84	-96.72	-78.35	-72.96	-70.04	-67.05	8074	1
lp[500,3]	-56.15	0.02	1.80	-60.53	-57.12	-55.83	-54.83	-53.61	9220	1
lp[501,1]	-163.60	0.15	18.66	-204.02	-175.46	-162.00	-150.25	-131.40	16299	1
lp[501,2]	-76.51	0.09	7.86	-97.81	-79.44	-74.04	-71.11	-68.07	8152	1
lp[501,3]	-56.85	0.02	1.80	-61.25	-57.83	-56.53	-55.53	-54.30	9212	1
lp[502,1]	-164.90	0.15	18.61	-205.21	-176.72	-163.30	-151.58	-132.84	16323	1
lp[502,2]	-79.36	0.09	7.93	-100.80	-82.35	-76.92	-73.91	-70.72	8349	1
lp[502,3]	-58.46	0.02	1.80	-62.79	-59.44	-58.14	-57.14	-55.92	9216	1
lp[503,1]	-165.30	0.15	18.63	-205.68	-177.12	-163.69	-151.96	-133.19	16313	1
lp[503,2]	-80.03	0.09	7.96	-101.55	-83.05	-77.59	-74.54	-71.31	8410	1
lp[503,3]	-58.83	0.02	1.81	-63.18	-59.82	-58.51	-57.51	-56.29	9208	1
lp[504,1]	-165.59	0.15	18.67	-206.06	-177.45	-163.97	-152.24	-133.42	16296	1
lp[504,2]	-80.37	0.09	7.98	-101.92	-83.42	-77.94	-74.86	-71.61	8451	1
lp[504,3]	-59.05	0.02	1.81	-63.40	-60.03	-58.73	-57.72	-56.49	9198	1
alphaReordered[1]	0.09	0.00	0.08	0.00	0.03	0.06	0.12	0.29	10948	1
alphaReordered[2]	1.03	0.00	0.15	0.77	0.93	1.02	1.12	1.35	10593	1
alphaReordered[3]	0.42	0.00	0.19	0.08	0.27	0.41	0.56	0.78	7290	1
stepLength[1]	0.92	0.00	0.07	0.75	0.89	0.94	0.97	1.00	11372	1
stepLength[2]	0.36	0.00	0.05	0.26	0.33	0.36	0.40	0.46	11107	1
stepLength[3]	0.67	0.00	0.12	0.46	0.57	0.66	0.76	0.92	7075	1
changePoint1	130.00	NaN	0.00	130.00	130.00	130.00	130.00	130.00	NaN	NaN
changePoint2	420.25	0.46	40.48	364.00	364.00	450.00	450.00	450.00	7900	1
lp__	-65.43	0.02	1.98	-70.17	-66.50	-65.07	-63.98	-62.67	6839	1

Samples were drawn using NUTS(diag_e) at Mon Aug 17 17:47:53 2020.
For each parameter, n_eff is a crude measure of effective sample size,
and Rhat is the potential scale reduction factor on split chains (at
convergence, Rhat=1).