

# Raw data output of the Optuna studies for hyperparameter optimization

EE3L11 - Bachelor Graduation Project - Content Based Video Search Engine

June 13, 2022

## Group H

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# Hyper parameter optimization for HNSW

## 1.1. Hyper parameter optimization for 270 keyframes

number	values_0	values_1	values_2	values_3	params_ef_const	params_m	state
0	0.758213	0.557726	0.000005	0.008007	9281	18	COMPLETE
1	0.758357	0.557767	0.000003	0.005004	5184	8	COMPLETE
2	0.763062	0.559711	0.000002	0.011010	3610	3	COMPLETE
3	0.758206	0.557811	0.000004	0.005004	2387	17	COMPLETE
4	0.757696	0.557385	0.000003	0.009007	1213	4	COMPLETE
5	0.758167	0.557759	0.000003	0.004003	1274	14	COMPLETE
6	0.757538	0.557459	0.000003	0.007006	8881	6	COMPLETE
7	0.758073	0.555737	0.000002	0.012012	1693	2	COMPLETE
8	0.758267	0.557822	0.000003	0.005005	9249	28	COMPLETE
9	0.758034	0.557652	0.000003	0.004003	8395	21	COMPLETE
10	0.758039	0.557678	0.000003	0.004004	4061	20	COMPLETE
11	0.758289	0.557789	0.000003	0.006005	4302	9	COMPLETE
12	0.758267	0.557811	0.000003	0.005005	5122	11	COMPLETE
13	0.758246	0.557767	0.000003	0.004004	7079	12	COMPLETE
14	0.758304	0.557789	0.000003	0.005003	9213	9	COMPLETE
15	0.758216	0.557767	0.000004	0.004003	8800	26	COMPLETE
16	0.758189	0.557711	0.000003	0.006004	5149	7	COMPLETE
17	0.758066	0.557693	0.000003	0.005004	374	20	COMPLETE
18	0.758284	0.557815	0.000005	0.005004	898	15	COMPLETE
19	0.758259	0.557807	0.000003	0.005003	5093	11	COMPLETE
20	0.758082	0.557663	0.000003	0.004003	1233	22	COMPLETE
21	0.758077	0.557719	0.000004	0.004003	1262	30	COMPLETE
22	0.758051	0.557663	0.000003	0.005004	3432	22	COMPLETE
23	0.758221	0.557804	0.000004	0.004003	1951	32	COMPLETE
24	0.758073	0.557678	0.000004	0.004003	3547	22	COMPLETE
25	0.758084	0.557700	0.000004	0.005003	3198	19	COMPLETE
26	0.758074	0.557715	0.000004	0.005003	9540	32	COMPLETE
27	0.758248	0.557789	0.000003	0.005004	1863	12	COMPLETE
28	0.758296	0.557848	0.000003	0.004003	1147	15	COMPLETE
29	0.756834	0.557163	0.000003	0.005004	80	6	COMPLETE
30	0.758280	0.557826	0.000003	0.005003	4552	16	COMPLETE
31	0.758145	0.557704	0.000004	0.004003	7096	24	COMPLETE
32	0.758243	0.557737	0.000003	0.006006	9459	7	COMPLETE
33	0.758476	0.557807	0.000003	0.005004	6825	8	COMPLETE
34	0.758081	0.557707	0.000003	0.004003	1188	29	COMPLETE

35	0.758077	0.557685	0.000003	0.005004	7463	19	COMPLETE
36	0.763033	0.559681	0.000002	0.012011	6742	3	COMPLETE
37	0.758223	0.557741	0.000003	0.004004	6751	12	COMPLETE
38	0.758134	0.557737	0.000003	0.004003	1928	30	COMPLETE
39	0.758104	0.557730	0.000004	0.005004	9875	32	COMPLETE
40	0.758230	0.557767	0.000003	0.005004	1340	9	COMPLETE
41	0.758038	0.557670	0.000003	0.005004	3098	22	COMPLETE
42	0.758266	0.557789	0.000003	0.005005	1008	13	COMPLETE
43	0.758096	0.557700	0.000003	0.005004	4547	29	COMPLETE
44	0.758240	0.557752	0.000003	0.005004	1017	18	COMPLETE
45	0.758251	0.557781	0.000003	0.005005	7379	16	COMPLETE
46	0.758307	0.557763	0.000003	0.006006	6442	8	COMPLETE
47	0.758288	0.557804	0.000003	0.005004	7804	13	COMPLETE
48	0.756811	0.557119	0.000003	0.007006	9769	6	COMPLETE
49	0.758352	0.557778	0.000003	0.006004	1232	8	COMPLETE
50	0.758112	0.557600	0.000003	0.009008	1213	4	COMPLETE
51	0.758132	0.557781	0.000003	0.005004	9875	32	COMPLETE
52	0.756816	0.557133	0.000003	0.006005	3547	6	COMPLETE
53	0.758078	0.557689	0.000003	0.004004	8395	21	COMPLETE
54	0.758256	0.557781	0.000004	0.004003	7075	16	COMPLETE
55	0.758137	0.557741	0.000004	0.004002	1928	30	COMPLETE
56	0.758026	0.557656	0.000003	0.005004	7540	22	COMPLETE
57	0.758331	0.557774	0.000003	0.006005	9213	8	COMPLETE
58	0.758138	0.557700	0.000003	0.005003	3118	28	COMPLETE
59	0.762945	0.559559	0.000002	0.011011	3388	3	COMPLETE
60	0.758192	0.557770	0.000003	0.005004	8881	14	COMPLETE
61	0.758076	0.557678	0.000003	0.004003	1233	22	COMPLETE
62	0.758053	0.557656	0.000004	0.005003	2501	22	COMPLETE
63	0.758279	0.557778	0.000003	0.006005	9213	9	COMPLETE
64	0.758307	0.557793	0.000003	0.006005	6837	9	COMPLETE
65	0.758203	0.557719	0.000003	0.004003	2672	24	COMPLETE
66	0.758095	0.557722	0.000004	0.004003	4071	29	COMPLETE
67	0.758214	0.557781	0.000003	0.005004	5184	11	COMPLETE
68	0.758278	0.557756	0.000003	0.006005	8795	8	COMPLETE
69	0.758064	0.557700	0.000003	0.005005	6825	20	COMPLETE
70	0.762909	0.559615	0.000002	0.012010	9375	3	COMPLETE
71	0.758234	0.557793	0.000003	0.005004	1832	11	COMPLETE
72	0.758164	0.557789	0.000004	0.005004	8395	32	COMPLETE
73	0.758092	0.557678	0.000004	0.004003	7950	22	COMPLETE
74	0.758234	0.557756	0.000003	0.005004	6751	12	COMPLETE
75	0.758163	0.557711	0.000003	0.004003	3884	18	COMPLETE
76	0.758295	0.557752	0.000003	0.006006	7495	8	COMPLETE
77	0.758282	0.557807	0.000003	0.005004	2173	13	COMPLETE
78	0.758277	0.557804	0.000004	0.004003	7379	16	COMPLETE
79	0.758162	0.557796	0.000004	0.004003	5530	32	COMPLETE
80	0.758298	0.557822	0.000003	0.005004	4703	13	COMPLETE
81	0.758078	0.557685	0.000004	0.004003	7804	22	COMPLETE
82	0.757767	0.557326	0.000003	0.009008	4061	4	COMPLETE
83	0.762889	0.559607	0.000002	0.012011	5814	3	COMPLETE
84	0.758052	0.557670	0.000003	0.004003	8395	21	COMPLETE
85	0.757667	0.557378	0.000003	0.009007	4422	4	COMPLETE
86	0.758317	0.557785	0.000003	0.005004	4707	8	COMPLETE
87	0.758094	0.557730	0.000004	0.005004	1741	20	COMPLETE
88	0.756827	0.557130	0.000002	0.006005	1481	6	COMPLETE
89	0.758153	0.557722	0.000003	0.005003	418	26	COMPLETE
90	0.758519	0.557881	0.000003	0.007006	4552	5	COMPLETE

91	0.758292	0.557844	0.000004	0.004003	9213	31	COMPLETE
92	0.758148	0.557737	0.000003	0.005005	4084	30	COMPLETE
93	0.758077	0.557711	0.000003	0.004003	1147	20	COMPLETE
94	0.758244	0.557737	0.000003	0.006006	1838	7	COMPLETE
95	0.758159	0.557685	0.000003	0.005004	8303	18	COMPLETE
96	0.758074	0.557719	0.000004	0.005004	3788	20	COMPLETE
97	0.762581	0.558667	0.000002	0.011010	4804	2	COMPLETE
98	0.758032	0.557548	0.000003	0.009008	4433	4	COMPLETE
99	0.758125	0.557789	0.000004	0.004003	1188	31	COMPLETE
100	0.758110	0.557700	0.000003	0.005004	5678	23	COMPLETE
101	0.758210	0.557781	0.000003	0.005005	792	26	COMPLETE
102	0.758226	0.557826	0.000004	0.004003	4294	17	COMPLETE
103	0.758050	0.557663	0.000003	0.004003	2422	21	COMPLETE
104	0.758121	0.557589	0.000003	0.009007	1362	4	COMPLETE
105	0.762960	0.559637	0.000002	0.012010	3610	3	COMPLETE
106	0.758259	0.557793	0.000003	0.005003	1375	13	COMPLETE
107	0.758272	0.557807	0.000004	0.005003	9395	16	COMPLETE
108	0.758192	0.557785	0.000004	0.004003	6939	14	COMPLETE
109	0.763309	0.559789	0.000002	0.011010	1233	3	COMPLETE
110	0.761100	0.557726	0.000002	0.012011	4804	2	COMPLETE
111	0.758264	0.557796	0.000004	0.005003	4433	16	COMPLETE
112	0.758034	0.557659	0.000003	0.004003	6713	22	COMPLETE
113	0.758222	0.557774	0.000003	0.004003	1182	30	COMPLETE
114	0.758290	0.557830	0.000003	0.006004	5515	11	COMPLETE
115	0.758030	0.555770	0.000002	0.012011	7825	2	COMPLETE
116	0.758223	0.557778	0.000003	0.005004	6473	28	COMPLETE
117	0.758073	0.557674	0.000003	0.005004	5311	21	COMPLETE
118	0.756809	0.557122	0.000003	0.006004	5184	6	COMPLETE
119	0.758236	0.557767	0.000003	0.004003	9375	18	COMPLETE
120	0.758292	0.557826	0.000004	0.005003	6235	16	COMPLETE
121	0.762885	0.559600	0.000002	0.012010	3370	3	COMPLETE
122	0.757529	0.557141	0.000003	0.009007	4433	4	COMPLETE
123	0.758168	0.557752	0.000003	0.005003	6564	19	COMPLETE
124	0.758129	0.557674	0.000004	0.004003	1928	18	COMPLETE
125	0.758064	0.557674	0.000003	0.004003	7075	23	COMPLETE
126	0.758200	0.557763	0.000003	0.004003	1274	14	COMPLETE
127	0.758116	0.557785	0.000004	0.004003	7766	32	COMPLETE
128	0.758245	0.557796	0.000004	0.005003	127	11	COMPLETE
129	0.757466	0.557219	0.000003	0.009008	4433	4	COMPLETE
130	0.756862	0.557148	0.000003	0.006005	6532	6	COMPLETE
131	0.758182	0.557785	0.000004	0.005004	2029	19	COMPLETE
132	0.763062	0.559681	0.000002	0.012010	7893	3	COMPLETE
133	0.758262	0.557737	0.000003	0.006005	7297	7	COMPLETE
134	0.758274	0.557770	0.000003	0.006005	3581	9	COMPLETE
135	0.758035	0.557652	0.000004	0.005004	2116	21	COMPLETE
136	0.758160	0.557748	0.000004	0.004003	1274	18	COMPLETE
137	0.758032	0.557663	0.000003	0.004003	6761	21	COMPLETE
138	0.758019	0.557641	0.000003	0.004003	1233	22	COMPLETE
139	0.763851	0.560133	0.000003	0.008006	9795	5	COMPLETE
140	0.758147	0.557748	0.000003	0.005004	1213	28	COMPLETE
141	0.758278	0.557800	0.000003	0.004004	8395	13	COMPLETE
142	0.758170	0.557752	0.000004	0.005004	1232	18	COMPLETE
143	0.758125	0.557726	0.000003	0.005004	801	19	COMPLETE
144	0.756811	0.557126	0.000003	0.007005	5951	6	COMPLETE
145	0.758256	0.557733	0.000003	0.006006	1188	7	COMPLETE
146	0.758279	0.557811	0.000003	0.004003	1147	15	COMPLETE

147	0.758183	0.557696	0.000003	0.006004	5575	7	COMPLETE
148	0.758279	0.557759	0.000003	0.006005	9213	8	COMPLETE
149	0.757944	0.557500	0.000002	0.010008	2904	4	COMPLETE
150	0.758249	0.557793	0.000004	0.004003	9213	31	COMPLETE
151	0.762988	0.559656	0.000002	0.012010	9284	3	COMPLETE
152	0.758090	0.557696	0.000003	0.005003	7079	21	COMPLETE
153	0.758072	0.557678	0.000003	0.005004	3388	22	COMPLETE
154	0.758328	0.557778	0.000003	0.005004	9213	8	COMPLETE
155	0.760909	0.557637	0.000002	0.012010	4804	2	COMPLETE
156	0.758041	0.557659	0.000003	0.005004	7075	21	COMPLETE
157	0.756800	0.557119	0.000003	0.007005	6384	6	COMPLETE
158	0.758312	0.557763	0.000004	0.006005	6825	8	COMPLETE
159	0.758210	0.557793	0.000004	0.005004	1698	27	COMPLETE
160	0.756813	0.557126	0.000003	0.006005	1785	6	COMPLETE
161	0.758302	0.557830	0.000004	0.004003	7509	16	COMPLETE
162	0.758095	0.557633	0.000003	0.006004	2422	10	COMPLETE
163	0.758203	0.557781	0.000003	0.005003	1274	14	COMPLETE
164	0.758278	0.557781	0.000003	0.006005	9449	9	COMPLETE
165	0.758110	0.557726	0.000004	0.004003	4264	24	COMPLETE
166	0.758112	0.557733	0.000003	0.005003	796	32	COMPLETE
167	0.758297	0.557822	0.000003	0.005004	7379	16	COMPLETE
168	0.758286	0.557763	0.000003	0.005003	362	8	COMPLETE
169	0.758276	0.557819	0.000003	0.005004	660	13	COMPLETE
170	0.756825	0.557133	0.000003	0.006005	1481	6	COMPLETE
171	0.758059	0.557678	0.000004	0.005005	8395	24	COMPLETE
172	0.760827	0.557574	0.000002	0.012011	3673	2	COMPLETE
173	0.758243	0.557767	0.000003	0.005004	2318	15	COMPLETE
174	0.758275	0.557759	0.000003	0.006005	7893	8	COMPLETE
175	0.756872	0.557163	0.000003	0.006005	1147	6	COMPLETE
176	0.758255	0.557815	0.000004	0.005004	9296	28	COMPLETE
177	0.758345	0.557889	0.000004	0.004003	7075	29	COMPLETE
178	0.758297	0.557767	0.000003	0.005005	1232	8	COMPLETE
179	0.758127	0.557730	0.000003	0.005003	1182	30	COMPLETE
180	0.758256	0.557789	0.000003	0.005005	5122	12	COMPLETE
181	0.758362	0.557785	0.000003	0.006005	4703	8	COMPLETE
182	0.758281	0.557796	0.000004	0.004004	5695	15	COMPLETE
183	0.758083	0.557748	0.000004	0.004003	3201	30	COMPLETE
184	0.758194	0.557778	0.000004	0.004003	4703	19	COMPLETE
185	0.758138	0.557726	0.000004	0.005004	2422	23	COMPLETE
186	0.762969	0.559611	0.000002	0.011011	5783	3	COMPLETE
187	0.758094	0.557733	0.000003	0.004003	5184	32	COMPLETE
188	0.758235	0.557793	0.000003	0.005004	1951	11	COMPLETE
189	0.758268	0.557848	0.000003	0.004003	2904	29	COMPLETE
190	0.758224	0.557770	0.000003	0.005004	7796	12	COMPLETE
191	0.758129	0.557730	0.000003	0.005005	7893	32	COMPLETE
192	0.758270	0.557733	0.000003	0.006006	432	7	COMPLETE
193	0.758182	0.557770	0.000004	0.005004	2227	32	COMPLETE
194	0.758029	0.557644	0.000003	0.004003	3388	22	COMPLETE
195	0.758020	0.557685	0.000004	0.004003	5075	20	COMPLETE
196	0.758106	0.557741	0.000004	0.005004	9454	30	COMPLETE
197	0.758127	0.557756	0.000004	0.004004	4433	29	COMPLETE
198	0.758206	0.557752	0.000004	0.004003	1233	27	COMPLETE
199	0.758128	0.557719	0.000004	0.004003	1182	23	COMPLETE
200	0.757986	0.557637	0.000003	0.005003	362	19	COMPLETE
201	0.762847	0.559563	0.000002	0.011009	1951	3	COMPLETE
202	0.758100	0.557726	0.000003	0.005003	9500	32	COMPLETE

203	0.758198	0.557781	0.000003	0.005003	1678	11	COMPLETE
204	0.758278	0.557807	0.000003	0.004003	1314	16	COMPLETE
205	0.758244	0.557767	0.000003	0.004003	2946	12	COMPLETE
206	0.758283	0.557804	0.000003	0.005004	2751	11	COMPLETE
207	0.758111	0.557689	0.000004	0.004003	3388	24	COMPLETE
208	0.758273	0.557815	0.000003	0.005004	9118	11	COMPLETE
209	0.762951	0.559637	0.000002	0.011010	3388	3	COMPLETE
210	0.762858	0.559556	0.000002	0.012010	8712	3	COMPLETE
211	0.758220	0.557770	0.000003	0.004003	1961	14	COMPLETE
212	0.758166	0.557715	0.000003	0.004004	7429	18	COMPLETE
213	0.758149	0.557759	0.000003	0.005003	5093	11	COMPLETE
214	0.763019	0.559656	0.000002	0.012010	315	3	COMPLETE
215	0.758110	0.557730	0.000003	0.005004	857	11	COMPLETE
216	0.758159	0.557756	0.000004	0.004003	4703	30	COMPLETE
217	0.763033	0.559644	0.000002	0.012010	3370	3	COMPLETE
218	0.757715	0.557278	0.000003	0.010008	1233	4	COMPLETE
219	0.762951	0.559652	0.000003	0.012010	9631	3	COMPLETE
220	0.758140	0.557726	0.000003	0.004004	3673	25	COMPLETE
221	0.758056	0.557659	0.000003	0.005004	5062	21	COMPLETE
222	0.758268	0.557804	0.000004	0.005004	9505	16	COMPLETE
223	0.758100	0.557726	0.000004	0.005005	7075	29	COMPLETE
224	0.758310	0.557767	0.000003	0.006004	9213	8	COMPLETE
225	0.758177	0.557730	0.000003	0.005004	1182	25	COMPLETE
226	0.758353	0.557781	0.000003	0.006005	362	8	COMPLETE
227	0.756773	0.557107	0.000003	0.006006	4001	6	COMPLETE
228	0.758285	0.557756	0.000003	0.006005	1147	8	COMPLETE
229	0.758051	0.557667	0.000003	0.005004	1233	20	COMPLETE
230	0.758233	0.557796	0.000004	0.004003	6825	27	COMPLETE
231	0.757750	0.557326	0.000003	0.009008	4712	4	COMPLETE
232	0.758235	0.557793	0.000003	0.005003	4780	11	COMPLETE
233	0.758034	0.557652	0.000004	0.004003	2657	21	COMPLETE
234	0.758033	0.557652	0.000003	0.005004	4784	22	COMPLETE
235	0.761811	0.558270	0.000002	0.012014	4613	2	COMPLETE
236	0.758275	0.557756	0.000003	0.006005	1996	8	COMPLETE
237	0.758190	0.557752	0.000003	0.005004	3673	25	COMPLETE
238	0.758079	0.557696	0.000004	0.004003	5122	23	COMPLETE
239	0.758087	0.557674	0.000004	0.004003	6979	22	COMPLETE
240	0.758156	0.557626	0.000003	0.009007	1213	4	COMPLETE
241	0.758056	0.557689	0.000003	0.005004	362	20	COMPLETE
242	0.758154	0.557715	0.000004	0.005004	1213	24	COMPLETE
243	0.758202	0.557696	0.000003	0.006005	4474	7	COMPLETE
244	0.758196	0.557793	0.000003	0.005004	5184	14	COMPLETE
245	0.758250	0.557770	0.000003	0.005003	7075	25	COMPLETE
246	0.758178	0.557778	0.000004	0.004003	4703	26	COMPLETE
247	0.758155	0.557770	0.000003	0.004004	184	29	COMPLETE
248	0.758334	0.557796	0.000004	0.004003	1147	23	COMPLETE
249	0.758057	0.557667	0.000004	0.004003	7079	21	COMPLETE
250	0.758278	0.557811	0.000004	0.005005	7079	15	COMPLETE
251	0.756866	0.557148	0.000003	0.007005	5982	6	COMPLETE
252	0.758130	0.557759	0.000003	0.004003	974	29	COMPLETE
253	0.758041	0.557652	0.000003	0.005004	5274	22	COMPLETE
254	0.758245	0.557759	0.000003	0.004065	1182	12	COMPLETE
255	0.758266	0.557819	0.000004	0.005003	1456	11	COMPLETE
256	0.758280	0.557811	0.000004	0.004004	3673	15	COMPLETE
257	0.758128	0.557770	0.000004	0.005004	1182	32	COMPLETE
258	0.758253	0.557785	0.000003	0.005003	2632	27	COMPLETE

259	0.758125	0.557719	0.000004	0.004003	4613	24	COMPLETE
260	0.758121	0.557748	0.000004	0.005004	551	32	COMPLETE
261	0.758247	0.557796	0.000003	0.005005	7079	11	COMPLETE
262	0.758169	0.557774	0.000004	0.005005	1951	32	COMPLETE
263	0.758031	0.557752	0.000004	0.005005	8637	15	COMPLETE
264	0.758055	0.555667	0.000002	0.011010	1951	2	COMPLETE
265	0.757494	0.557144	0.000003	0.009007	8235	4	COMPLETE
266	0.758096	0.557715	0.000003	0.005004	1681	19	COMPLETE
267	0.758039	0.557667	0.000006	0.004003	4065	22	COMPLETE
268	0.758254	0.557807	0.000003	0.005004	1693	11	COMPLETE
269	0.757796	0.557348	0.000003	0.010009	589	4	COMPLETE
270	0.762948	0.559607	0.000002	0.012011	8712	3	COMPLETE
271	0.758252	0.557767	0.000003	0.006006	949	9	COMPLETE
272	0.758265	0.557759	0.000004	0.003003	80	16	COMPLETE
273	0.757803	0.557307	0.000003	0.009007	8395	4	COMPLETE
274	0.762936	0.559630	0.000003	0.012010	1233	3	COMPLETE
275	0.758148	0.557652	0.000003	0.005004	7379	10	COMPLETE
276	0.758272	0.557796	0.000004	0.004003	7379	15	COMPLETE
277	0.758210	0.557704	0.000003	0.005003	3388	7	COMPLETE
278	0.758299	0.557763	0.000003	0.006005	1182	8	COMPLETE
279	0.758131	0.557719	0.000003	0.005005	3673	27	COMPLETE
280	0.758067	0.555737	0.000002	0.012011	7075	2	COMPLETE
281	0.758238	0.557796	0.000003	0.005005	9147	11	COMPLETE
282	0.758113	0.557759	0.000003	0.004003	742	29	COMPLETE
283	0.758325	0.557778	0.000003	0.005005	1589	8	COMPLETE
284	0.757803	0.557389	0.000003	0.010008	1213	4	COMPLETE
285	0.758272	0.557770	0.000003	0.006004	6295	9	COMPLETE
286	0.758126	0.557633	0.000003	0.006004	8898	10	COMPLETE
287	0.763114	0.559681	0.000002	0.012011	8199	3	COMPLETE
288	0.758198	0.557781	0.000004	0.005004	7471	17	COMPLETE
289	0.758108	0.557700	0.000003	0.004003	9459	23	COMPLETE
290	0.758270	0.557793	0.000004	0.005004	6912	15	COMPLETE
291	0.758273	0.557804	0.000003	0.005003	1270	13	COMPLETE
292	0.758273	0.557752	0.000003	0.006004	1233	8	COMPLETE
293	0.758090	0.557681	0.000003	0.005004	1928	23	COMPLETE
294	0.758061	0.557685	0.000004	0.005004	1147	23	COMPLETE
295	0.761126	0.557741	0.000002	0.011009	1693	2	COMPLETE
296	0.758220	0.557704	0.000003	0.006005	9459	7	COMPLETE
297	0.758108	0.557759	0.000004	0.005004	5336	30	COMPLETE
298	0.758476	0.557800	0.000003	0.006005	6432	8	COMPLETE
299	0.758273	0.557815	0.000003	0.005003	9736	13	COMPLETE
300	0.758021	0.557663	0.000004	0.003996	4804	20	COMPLETE
301	0.758339	0.557785	0.000003	0.006005	6756	8	COMPLETE
302	0.758121	0.557730	0.000003	0.004003	4804	27	COMPLETE
303	0.757565	0.557459	0.000003	0.007005	1481	6	COMPLETE
304	0.758060	0.557689	0.000003	0.004003	5267	20	COMPLETE
305	0.758203	0.557711	0.000003	0.006005	7075	7	COMPLETE
306	0.758101	0.557733	0.000003	0.005005	2573	29	COMPLETE
307	0.762968	0.559637	0.000003	0.012010	5093	3	COMPLETE
308	0.758252	0.557781	0.000003	0.005004	5184	12	COMPLETE
309	0.758133	0.557681	0.000004	0.005004	9795	18	COMPLETE
310	0.758133	0.557733	0.000003	0.005080	5093	11	COMPLETE
311	0.758248	0.557781	0.000003	0.005004	1182	12	COMPLETE
312	0.758240	0.557800	0.000003	0.005004	9118	11	COMPLETE
313	0.758205	0.557811	0.000003	0.005004	9423	17	COMPLETE
314	0.758261	0.557759	0.000003	0.005004	1673	12	COMPLETE

315	0.758233	0.557781	0.000003	0.004003	922	12	COMPLETE
316	0.758110	0.557722	0.000004	0.004004	6268	31	COMPLETE
317	0.763942	0.560189	0.000003	0.008006	742	5	COMPLETE
318	0.758276	0.557756	0.000003	0.006005	1836	8	COMPLETE
319	0.760905	0.557604	0.000002	0.011010	1233	2	COMPLETE
320	0.761557	0.558144	0.000002	0.012011	4804	2	COMPLETE
321	0.756881	0.557133	0.000003	0.005005	80	6	COMPLETE
322	0.758244	0.557774	0.000003	0.005004	2189	13	COMPLETE
323	0.758205	0.557785	0.000003	0.005004	5759	29	COMPLETE
324	0.763875	0.560178	0.000003	0.008006	4502	5	COMPLETE
325	0.758139	0.557648	0.000003	0.005004	1147	10	COMPLETE
326	0.757569	0.557196	0.000002	0.009007	3226	4	COMPLETE
327	0.758188	0.557778	0.000003	0.004003	4804	28	COMPLETE
328	0.762945	0.559656	0.000002	0.012012	801	3	COMPLETE
329	0.758187	0.557707	0.000003	0.006005	6100	7	COMPLETE
330	0.758214	0.557826	0.000004	0.005004	4422	31	COMPLETE
331	0.758233	0.557833	0.000004	0.005004	1147	17	COMPLETE
332	0.758106	0.557704	0.000003	0.004003	1693	29	COMPLETE
333	0.758045	0.557667	0.000004	0.005004	9678	22	COMPLETE
334	0.758049	0.557663	0.000004	0.004003	1233	22	COMPLETE
335	0.762928	0.559585	0.000002	0.012011	8541	3	COMPLETE
336	0.758325	0.557763	0.000003	0.005004	6432	8	COMPLETE
337	0.758229	0.557756	0.000004	0.005003	4552	15	COMPLETE
338	0.758198	0.557793	0.000003	0.004003	6058	30	COMPLETE
339	0.758110	0.557767	0.000004	0.004002	4659	29	COMPLETE
340	0.758142	0.557748	0.000003	0.004003	4552	29	COMPLETE
341	0.761122	0.557737	0.000002	0.011009	5120	2	COMPLETE
342	0.758233	0.557789	0.000003	0.005004	9817	11	COMPLETE
343	0.758283	0.557752	0.000003	0.006005	1233	7	COMPLETE
344	0.758179	0.557774	0.000003	0.005004	5019	11	COMPLETE
345	0.758291	0.557774	0.000003	0.005004	9213	8	COMPLETE
346	0.758241	0.557763	0.000003	0.005004	1205	12	COMPLETE
347	0.758131	0.557752	0.000004	0.005004	1147	29	COMPLETE
348	0.758058	0.557674	0.000004	0.005004	1233	22	COMPLETE
349	0.758248	0.557767	0.000003	0.005004	7145	12	COMPLETE
350	0.758194	0.557778	0.000004	0.004004	5194	17	COMPLETE
351	0.762534	0.558630	0.000002	0.012011	1857	2	COMPLETE
352	0.757467	0.555459	0.000002	0.012010	8395	2	COMPLETE
353	0.763857	0.560178	0.000003	0.007006	3388	5	COMPLETE
354	0.758304	0.557774	0.000003	0.006005	1639	8	COMPLETE
355	0.758148	0.557741	0.000003	0.005005	1182	30	COMPLETE
356	0.762597	0.558670	0.000002	0.013011	8424	2	COMPLETE
357	0.757793	0.557367	0.000003	0.009008	4780	4	COMPLETE
358	0.758273	0.557822	0.000003	0.005004	246	11	COMPLETE
359	0.758193	0.557737	0.000004	0.005004	5577	18	COMPLETE
360	0.758050	0.557678	0.000004	0.004003	1233	22	COMPLETE
361	0.758114	0.557722	0.000004	0.004004	5028	29	COMPLETE
362	0.758289	0.557774	0.000003	0.005005	8496	9	COMPLETE
363	0.763867	0.560167	0.000003	0.008007	9471	5	COMPLETE
364	0.758105	0.557741	0.000003	0.005004	1951	31	COMPLETE
365	0.758303	0.557763	0.000003	0.006005	4804	8	COMPLETE
366	0.758305	0.557778	0.000003	0.006006	9213	8	COMPLETE
367	0.758231	0.557770	0.000004	0.005003	9213	27	COMPLETE
368	0.761777	0.558259	0.000003	0.011009	4804	2	COMPLETE
369	0.758119	0.557711	0.000003	0.005004	8063	27	COMPLETE
370	0.758205	0.557781	0.000004	0.005003	8961	19	COMPLETE



371	0.758289	0.557748	0.000003	0.006004	9213	8	COMPLETE
372	0.756813	0.557137	0.000003	0.007005	5814	6	COMPLETE
373	0.758129	0.557633	0.000003	0.005004	302	10	COMPLETE
374	0.758119	0.557752	0.000004	0.004004	4899	29	COMPLETE
375	0.758327	0.555830	0.000002	0.011009	4819	2	COMPLETE
376	0.758339	0.557789	0.000003	0.006004	9334	7	COMPLETE
377	0.758238	0.557796	0.000003	0.005004	6080	11	COMPLETE
378	0.758036	0.557663	0.000003	0.005004	1233	22	COMPLETE
379	0.758128	0.557707	0.000003	0.004003	2310	23	COMPLETE
380	0.758090	0.557685	0.000004	0.004003	1811	21	COMPLETE
381	0.758119	0.557715	0.000004	0.004004	7379	29	COMPLETE
382	0.758085	0.557700	0.000003	0.005004	1147	22	COMPLETE
383	0.758240	0.557733	0.000004	0.005004	702	24	COMPLETE
384	0.762877	0.559544	0.000003	0.011009	80	3	COMPLETE
385	0.758137	0.557752	0.000003	0.005004	4086	11	COMPLETE
386	0.763675	0.560033	0.000003	0.008007	7351	5	COMPLETE
387	0.758150	0.557756	0.000004	0.005003	1520	31	COMPLETE
388	0.758223	0.557770	0.000003	0.004004	1147	12	COMPLETE
389	0.758285	0.557811	0.000003	0.004004	2814	15	COMPLETE
390	0.758142	0.557641	0.000003	0.005003	9213	10	COMPLETE
391	0.758099	0.557752	0.000003	0.005004	5093	29	COMPLETE
392	0.758089	0.557726	0.000004	0.005004	4552	31	COMPLETE
393	0.758026	0.557648	0.000004	0.005003	7746	21	COMPLETE
394	0.757792	0.557363	0.000002	0.010008	1054	4	COMPLETE
395	0.758039	0.557656	0.000004	0.004003	227	21	COMPLETE
396	0.757964	0.557533	0.000004	0.010008	7821	4	COMPLETE
397	0.763006	0.559622	0.000002	0.012012	1951	3	COMPLETE
398	0.762888	0.559596	0.000002	0.012010	9228	3	COMPLETE
399	0.758140	0.557641	0.000003	0.006004	7379	10	COMPLETE
400	0.758290	0.557763	0.000003	0.005003	3451	8	COMPLETE
401	0.762701	0.559463	0.000003	0.012012	7079	3	COMPLETE
402	0.758182	0.557770	0.000004	0.005004	882	11	COMPLETE
403	0.758082	0.557693	0.000003	0.005004	3388	20	COMPLETE
404	0.758276	0.557804	0.000004	0.004004	5093	16	COMPLETE
405	0.758194	0.557807	0.000004	0.004003	7079	29	COMPLETE
406	0.758030	0.557700	0.000003	0.004004	8371	20	COMPLETE
407	0.759098	0.556393	0.000003	0.011012	8663	2	COMPLETE
408	0.761346	0.558015	0.000002	0.012011	7594	2	COMPLETE
409	0.758222	0.557763	0.000003	0.005004	1671	27	COMPLETE
410	0.758384	0.557807	0.000003	0.006005	6432	8	COMPLETE
411	0.758174	0.557741	0.000003	0.005004	2166	27	COMPLETE
412	0.758112	0.557704	0.000004	0.005004	1428	26	COMPLETE
413	0.758108	0.557652	0.000004	0.005005	6432	10	COMPLETE
414	0.758277	0.557811	0.000004	0.005005	9531	15	COMPLETE
415	0.758265	0.557807	0.000004	0.005004	4780	27	COMPLETE
416	0.757796	0.557319	0.000004	0.009008	3226	4	COMPLETE
417	0.758244	0.557781	0.000005	0.004003	5721	16	COMPLETE
418	0.758149	0.557752	0.000004	0.005004	5374	28	COMPLETE
419	0.758004	0.557541	0.000004	0.009009	362	4	COMPLETE
420	0.757687	0.557285	0.000004	0.010010	684	4	COMPLETE
421	0.758210	0.557796	0.000005	0.005004	1182	25	COMPLETE
422	0.758272	0.557819	0.000005	0.005004	7579	28	COMPLETE
423	0.758138	0.557611	0.000003	0.010009	1054	4	COMPLETE
424	0.758302	0.557763	0.000003	0.006005	4336	8	COMPLETE
425	0.758186	0.557770	0.000003	0.005004	5822	11	COMPLETE
426	0.758291	0.557815	0.000003	0.004003	4132	13	COMPLETE

427	0.758119	0.557648	0.000004	0.006005	9213	10	COMPLETE
428	0.758111	0.557733	0.000005	0.005004	1790	32	COMPLETE
429	0.758008	0.557652	0.000004	0.005004	3119	20	COMPLETE
430	0.757978	0.557637	0.000005	0.005005	4804	20	COMPLETE
431	0.758210	0.557733	0.000004	0.004003	9053	12	COMPLETE
432	0.758202	0.557733	0.000004	0.005004	2497	11	COMPLETE
433	0.758198	0.557756	0.000004	0.005004	4552	19	COMPLETE
434	0.758070	0.557715	0.000004	0.005004	4659	20	COMPLETE
435	0.759332	0.556537	0.000003	0.012011	9760	2	COMPLETE
436	0.756724	0.557111	0.000004	0.005004	80	6	COMPLETE
437	0.758501	0.557830	0.000004	0.007005	3069	8	COMPLETE
438	0.758290	0.557763	0.000004	0.006006	5184	8	COMPLETE
439	0.758052	0.557656	0.000005	0.005004	4003	22	COMPLETE
440	0.758107	0.557752	0.000004	0.004003	8424	30	COMPLETE
441	0.758328	0.557848	0.000005	0.005004	5561	27	COMPLETE
442	0.758228	0.557793	0.000004	0.006005	1147	11	COMPLETE
443	0.758334	0.557793	0.000004	0.006005	9624	8	COMPLETE
444	0.756749	0.557107	0.000004	0.005006	80	6	COMPLETE
445	0.758164	0.557656	0.000004	0.006006	4804	10	COMPLETE
446	0.761769	0.558241	0.000003	0.012011	4804	2	COMPLETE
447	0.758197	0.557781	0.000004	0.006005	7474	11	COMPLETE
448	0.763896	0.560178	0.000004	0.007006	1182	5	COMPLETE
449	0.758186	0.557774	0.000005	0.005005	2904	28	COMPLETE
450	0.758124	0.557763	0.000005	0.004003	5592	31	COMPLETE
451	0.758344	0.557804	0.000004	0.006005	9532	8	COMPLETE
452	0.763902	0.560200	0.000004	0.008060	3603	5	COMPLETE
453	0.758177	0.557752	0.000005	0.005004	4502	27	COMPLETE
454	0.758267	0.557767	0.000005	0.003506	80	16	COMPLETE
455	0.758222	0.557707	0.000004	0.006006	1233	9	COMPLETE
456	0.758188	0.557763	0.000004	0.005004	450	14	COMPLETE
457	0.758199	0.557726	0.000004	0.004003	5772	18	COMPLETE
458	0.758346	0.557789	0.000004	0.006005	8640	8	COMPLETE
459	0.758194	0.557800	0.000005	0.004004	3388	17	COMPLETE
460	0.758295	0.557822	0.000005	0.005004	742	13	COMPLETE
461	0.761811	0.558270	0.000003	0.012010	8798	2	COMPLETE
462	0.758104	0.557722	0.000004	0.004004	5902	29	COMPLETE
463	0.758238	0.557804	0.000005	0.005003	2904	28	COMPLETE
464	0.758087	0.557689	0.000004	0.004003	524	19	COMPLETE
465	0.757486	0.557159	0.000004	0.009009	7828	4	COMPLETE
466	0.763858	0.560156	0.000004	0.008007	3388	5	COMPLETE
467	0.757711	0.557270	0.000004	0.010008	563	4	COMPLETE
468	0.758275	0.557796	0.000004	0.005004	7935	25	COMPLETE
469	0.761748	0.558230	0.000003	0.013011	8420	2	COMPLETE
470	0.758036	0.557696	0.000005	0.004003	4804	20	COMPLETE
471	0.758244	0.557767	0.000004	0.006005	3609	9	COMPLETE
472	0.758033	0.557656	0.000004	0.005003	3451	22	COMPLETE
473	0.758341	0.557785	0.000004	0.006005	5184	8	COMPLETE
474	0.758238	0.557752	0.000004	0.006004	1054	9	COMPLETE
475	0.758182	0.557796	0.000004	0.005004	6790	14	COMPLETE
476	0.758197	0.557685	0.000004	0.005003	1182	24	COMPLETE
477	0.758087	0.557700	0.000005	0.004004	1951	21	COMPLETE
478	0.758129	0.557737	0.000004	0.005004	699	30	COMPLETE
479	0.758322	0.557748	0.000004	0.006006	6156	8	COMPLETE
480	0.758219	0.557770	0.000004	0.005004	3388	31	COMPLETE
481	0.758035	0.557667	0.000003	0.004003	5231	21	COMPLETE
482	0.758136	0.557722	0.000005	0.004003	1147	24	COMPLETE

483	0.763027	0.559644	0.000003	0.013011	2775	3	COMPLETE
484	0.758276	0.557781	0.000005	0.004003	80	13	COMPLETE
485	0.758162	0.557752	0.000005	0.005004	5992	19	COMPLETE
486	0.758066	0.557674	0.000004	0.005004	3388	23	COMPLETE
487	0.758149	0.557737	0.000005	0.005004	8424	19	COMPLETE
488	0.758131	0.557719	0.000004	0.005004	4659	29	COMPLETE
489	0.758060	0.557674	0.000004	0.004004	413	21	COMPLETE
490	0.757679	0.557352	0.000004	0.009008	3388	4	COMPLETE
491	0.758263	0.557785	0.000004	0.005004	3940	12	COMPLETE
492	0.757764	0.557522	0.000004	0.007006	9213	6	COMPLETE
493	0.758111	0.557696	0.000004	0.003004	80	23	COMPLETE
494	0.758321	0.557822	0.000004	0.005004	4552	27	COMPLETE
495	0.758183	0.557781	0.000004	0.005004	6873	11	COMPLETE
496	0.758194	0.557737	0.000004	0.005004	5152	25	COMPLETE
497	0.762463	0.558589	0.000003	0.011010	3742	2	COMPLETE
498	0.758135	0.557748	0.000004	0.004003	2904	32	COMPLETE
499	0.763008	0.559674	0.000004	0.012011	6214	3	COMPLETE
500	0.758235	0.557870	0.000005	0.005003	3834	17	COMPLETE
501	0.758291	0.557811	0.000004	0.005003	7720	16	COMPLETE
502	0.758261	0.557815	0.000004	0.005004	9025	11	COMPLETE
503	0.758258	0.557789	0.000005	0.005004	3451	15	COMPLETE
504	0.758193	0.557711	0.000004	0.006004	1928	7	COMPLETE
505	0.758085	0.557689	0.000005	0.003003	80	30	COMPLETE
506	0.758197	0.557796	0.000005	0.005004	963	17	COMPLETE
507	0.758129	0.557744	0.000004	0.005005	7079	31	COMPLETE
508	0.758105	0.557722	0.000004	0.004003	4502	32	COMPLETE
509	0.762953	0.559619	0.000003	0.012011	1233	3	COMPLETE
510	0.758263	0.557770	0.000004	0.006005	7594	9	COMPLETE
511	0.758089	0.557648	0.000004	0.005004	5856	21	COMPLETE
512	0.758279	0.557796	0.000005	0.005004	9532	15	COMPLETE
513	0.763294	0.559822	0.000003	0.012011	6705	3	COMPLETE
514	0.763935	0.560211	0.000004	0.007006	7562	5	COMPLETE
515	0.758309	0.557837	0.000003	0.005005	3721	16	COMPLETE
516	0.758299	0.557815	0.000005	0.004003	4502	13	COMPLETE
517	0.758251	0.557756	0.000004	0.005003	1951	25	COMPLETE
518	0.758134	0.557744	0.000005	0.005004	7343	32	COMPLETE
519	0.758207	0.557752	0.000005	0.004003	4780	25	COMPLETE
520	0.758096	0.557693	0.000004	0.005004	6432	23	COMPLETE
521	0.757693	0.555300	0.000003	0.012011	1928	2	COMPLETE
522	0.758087	0.557722	0.000004	0.005003	1536	27	COMPLETE
523	0.758250	0.557770	0.000004	0.005004	4573	12	COMPLETE
524	0.761825	0.558289	0.000003	0.012011	1054	2	COMPLETE
525	0.758217	0.557756	0.000004	0.005004	3451	28	COMPLETE
526	0.758299	0.557763	0.000004	0.006005	294	8	COMPLETE
527	0.763867	0.560181	0.000004	0.008007	624	5	COMPLETE
528	0.758166	0.557696	0.000005	0.004003	2217	18	COMPLETE
529	0.763898	0.560193	0.000004	0.008007	742	5	COMPLETE
530	0.756778	0.557111	0.000004	0.007006	2001	6	COMPLETE
531	0.758288	0.557756	0.000004	0.006006	4734	8	COMPLETE
532	0.758053	0.557681	0.000004	0.004004	1054	21	COMPLETE
533	0.758120	0.557733	0.000005	0.005004	6396	20	COMPLETE
534	0.758146	0.557722	0.000005	0.004004	3616	16	COMPLETE
535	0.758055	0.557648	0.000004	0.005005	1285	22	COMPLETE
536	0.758085	0.557641	0.000004	0.006006	8712	10	COMPLETE
537	0.758102	0.557700	0.000005	0.004003	3451	24	COMPLETE
538	0.758211	0.557774	0.000005	0.004003	4804	14	COMPLETE

539	0.761653	0.558200	0.000003	0.012011	6648	2	COMPLETE
540	0.758316	0.557796	0.000003	0.005003	6961	27	COMPLETE
541	0.758248	0.557781	0.000003	0.005003	2956	12	COMPLETE
542	0.763857	0.560159	0.000003	0.008006	3603	5	COMPLETE
543	0.761069	0.557826	0.000002	0.012012	5560	2	COMPLETE
544	0.757972	0.555667	0.000002	0.011010	3943	2	COMPLETE
545	0.759153	0.556411	0.000002	0.011011	4671	2	COMPLETE
546	0.762979	0.559670	0.000003	0.012010	1182	3	COMPLETE
547	0.758102	0.557715	0.000005	0.005005	8778	31	COMPLETE
548	0.761826	0.558281	0.000003	0.012010	3336	2	COMPLETE
549	0.762604	0.558678	0.000003	0.011010	8138	2	COMPLETE
550	0.763939	0.560200	0.000004	0.008008	2100	5	COMPLETE
551	0.758160	0.557696	0.000004	0.005003	1857	23	COMPLETE
552	0.758276	0.557759	0.000004	0.006005	6911	8	COMPLETE
553	0.758137	0.557733	0.000004	0.005004	6114	25	COMPLETE
554	0.758288	0.557763	0.000003	0.006004	1693	8	COMPLETE
555	0.758077	0.557719	0.000004	0.005004	6068	29	COMPLETE
556	0.760824	0.557663	0.000002	0.011009	7079	2	COMPLETE
557	0.758186	0.557663	0.000003	0.009007	8936	4	COMPLETE
558	0.758299	0.557822	0.000004	0.004003	8829	16	COMPLETE
559	0.761104	0.557730	0.000002	0.011009	518	2	COMPLETE
560	0.762929	0.559630	0.000002	0.011010	6069	3	COMPLETE
561	0.758096	0.557715	0.000004	0.005004	2783	20	COMPLETE
562	0.758140	0.557648	0.000003	0.006004	2471	10	COMPLETE
563	0.757840	0.557370	0.000002	0.009007	3226	4	COMPLETE
564	0.758136	0.557752	0.000004	0.004003	5541	32	COMPLETE
565	0.758063	0.557663	0.000004	0.005004	4766	21	COMPLETE
566	0.757763	0.555563	0.000002	0.011011	5120	2	COMPLETE
567	0.762970	0.559600	0.000002	0.011011	1147	3	COMPLETE
568	0.757853	0.555585	0.000002	0.011010	4804	2	COMPLETE
569	0.758051	0.555726	0.000002	0.012012	4012	2	COMPLETE
570	0.758188	0.557804	0.000004	0.005003	4734	32	COMPLETE
571	0.756947	0.557204	0.000003	0.006005	6394	6	COMPLETE
572	0.762929	0.559626	0.000002	0.013012	7079	3	COMPLETE
573	0.758121	0.557589	0.000003	0.009008	1054	4	COMPLETE
574	0.764038	0.560244	0.000003	0.008007	4035	5	COMPLETE
575	0.756846	0.557144	0.000003	0.006005	6240	6	COMPLETE
576	0.758070	0.557600	0.000002	0.009007	8984	4	COMPLETE
577	0.763949	0.560211	0.000003	0.007006	563	5	COMPLETE
578	0.760905	0.557604	0.000002	0.012011	4671	2	COMPLETE
579	0.758304	0.557800	0.000003	0.004003	2069	12	COMPLETE
580	0.761121	0.557756	0.000002	0.012011	8050	2	COMPLETE
581	0.758289	0.557822	0.000003	0.004003	3388	16	COMPLETE
582	0.757978	0.557596	0.000003	0.010008	1328	4	COMPLETE
583	0.758262	0.557811	0.000003	0.005004	1553	12	COMPLETE
584	0.758176	0.557733	0.000003	0.005004	5411	27	COMPLETE
585	0.758255	0.557763	0.000003	0.004004	2956	12	COMPLETE
586	0.758148	0.557737	0.000005	0.005004	5232	18	COMPLETE
587	0.763841	0.560156	0.000003	0.008006	7562	5	COMPLETE
588	0.762908	0.559600	0.000002	0.013011	1233	3	COMPLETE
589	0.763880	0.560189	0.000003	0.008311	9814	5	COMPLETE
590	0.758241	0.557767	0.000003	0.004003	7079	12	COMPLETE
591	0.758287	0.557804	0.000003	0.005003	8955	16	COMPLETE
592	0.758111	0.557741	0.000004	0.005004	4804	20	COMPLETE
593	0.758152	0.557704	0.000003	0.004003	8240	23	COMPLETE
594	0.758084	0.557700	0.000004	0.004004	4071	21	COMPLETE

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595	0.758264	0.557811	0.000003	0.005004	9772	12	COMPLETE
596	0.763966	0.560278	0.000003	0.007511	742	5	COMPLETE
597	0.758150	0.557722	0.000003	0.004003	9213	25	COMPLETE
598	0.758297	0.557815	0.000003	0.004003	9362	16	COMPLETE
599	0.758242	0.557800	0.000003	0.005004	9925	11	COMPLETE
600	0.758289	0.557807	0.000004	0.005004	1438	16	COMPLETE
601	0.758309	0.557822	0.000004	0.005004	5154	16	COMPLETE
602	0.758202	0.557756	0.000004	0.005003	4552	27	COMPLETE
603	0.758287	0.557756	0.000003	0.006006	563	8	COMPLETE
604	0.758334	0.557763	0.000003	0.006005	6856	8	COMPLETE
605	0.758293	0.557785	0.000003	0.004004	80	15	COMPLETE
606	0.758258	0.557785	0.000004	0.005004	1406	13	COMPLETE
607	0.758293	0.557811	0.000004	0.005003	2904	16	COMPLETE
608	0.762859	0.559548	0.000002	0.012011	1233	3	COMPLETE
609	0.758172	0.557748	0.000003	0.005004	4439	27	COMPLETE
610	0.758093	0.557722	0.000004	0.004003	3245	20	COMPLETE
611	0.758143	0.557670	0.000003	0.002003	58	24	COMPLETE
612	0.756854	0.557141	0.000003	0.007005	7076	6	COMPLETE
613	0.758130	0.557696	0.000003	0.004003	80	23	COMPLETE
614	0.761098	0.557730	0.000002	0.012212	1857	2	COMPLETE
615	0.758185	0.557793	0.000004	0.005004	6394	28	COMPLETE
616	0.756835	0.557137	0.000003	0.006005	385	6	COMPLETE
617	0.761123	0.557756	0.000002	0.011011	3774	2	COMPLETE
618	0.762987	0.559644	0.000003	0.012010	1233	3	COMPLETE
619	0.762997	0.559619	0.000002	0.012010	8829	3	COMPLETE
620	0.758249	0.557793	0.000003	0.005004	1233	13	COMPLETE
621	0.758128	0.557737	0.000004	0.005004	5465	31	COMPLETE
622	0.758047	0.557678	0.000003	0.005004	8712	21	COMPLETE
623	0.758084	0.557689	0.000004	0.004004	4659	23	COMPLETE
624	0.758019	0.555759	0.000002	0.012010	4659	2	COMPLETE

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# 2

## Hyper parameter optimization for IVF

### 2.1. Hyper parameter optimization for 270 keyframes

number	values_0	values_1	values_2	values_3	params_nprobe	params_splits	state
0	0.757868	0.557663	0.000010	0.010008	4	5	COMPLETE
1	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
2	0.758313	0.557870	0.000007	0.006005	3	7	COMPLETE
3	0.757834	0.557641	0.000008	0.005004	2	3	COMPLETE
4	0.757584	0.555556	0.000009	0.004999	1	2	COMPLETE
5	0.739095	0.543230	0.000004	0.004003	1	3	COMPLETE
6	0.757863	0.557659	0.000010	0.004003	4	4	COMPLETE
7	0.760080	0.558656	0.000003	0.005004	2	8	COMPLETE
8	0.758421	0.557930	0.000005	0.006005	3	8	COMPLETE
9	0.760080	0.558656	0.000004	0.005005	2	8	COMPLETE
10	0.757863	0.557659	0.000011	0.005004	4	4	COMPLETE
11	0.757863	0.557659	0.000010	0.005005	2	2	COMPLETE
12	0.757584	0.555556	0.000008	0.005004	1	2	COMPLETE
13	0.757863	0.557659	0.000008	0.005003	1	1	COMPLETE
14	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
15	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
16	0.757863	0.557659	0.000009	0.005004	5	6	COMPLETE
17	0.757834	0.557641	0.000011	0.005003	2	3	COMPLETE
18	0.757863	0.557659	0.000011	0.005004	7	7	COMPLETE
19	0.757863	0.557659	0.000010	0.005005	1	1	COMPLETE
20	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
21	0.757863	0.557659	0.000009	0.005004	5	6	COMPLETE
22	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
23	0.757863	0.557659	0.000010	0.004003	2	2	COMPLETE
24	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
25	0.766936	0.557370	0.000002	0.006006	1	7	COMPLETE
26	0.757868	0.557663	0.000009	0.005004	4	5	COMPLETE
27	0.757863	0.557659	0.000010	0.005003	6	7	COMPLETE
28	0.759278	0.558144	0.000004	0.005005	2	5	COMPLETE
29	0.758204	0.557804	0.000005	0.005005	3	6	COMPLETE
30	0.739095	0.543230	0.000007	0.005004	1	3	COMPLETE
31	0.766936	0.557370	0.000002	0.005004	1	7	COMPLETE
32	0.758538	0.557796	0.000007	0.005003	2	4	COMPLETE
33	0.762230	0.556504	0.000003	0.005004	1	4	COMPLETE
34	0.757863	0.557659	0.000011	0.005004	7	7	COMPLETE

35	0.757863	0.557659	0.000010	0.004002	4	4	COMPLETE
36	0.757834	0.557641	0.000010	0.005004	2	3	COMPLETE
37	0.739095	0.543230	0.000007	0.004003	1	3	COMPLETE
38	0.757863	0.557659	0.000008	0.004004	1	1	COMPLETE
39	0.757863	0.557659	0.000010	0.005004	6	6	COMPLETE
40	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
41	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
42	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
43	0.759360	0.558167	0.000006	0.005004	2	6	COMPLETE
44	0.757875	0.557670	0.000007	0.005005	4	6	COMPLETE
45	0.757863	0.557659	0.000011	0.006006	6	8	COMPLETE
46	0.757913	0.557689	0.000006	0.006005	4	7	COMPLETE
47	0.766144	0.557222	0.000003	0.004003	1	5	COMPLETE
48	0.757981	0.557722	0.000007	0.006006	4	8	COMPLETE
49	0.757863	0.557656	0.000009	0.006005	5	7	COMPLETE
50	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
51	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
52	0.760080	0.558656	0.000004	0.006006	2	8	COMPLETE
53	0.762230	0.556504	0.000004	0.004003	1	4	COMPLETE
54	0.757863	0.557659	0.000011	0.004003	5	5	COMPLETE
55	0.757910	0.557674	0.000009	0.004004	3	4	COMPLETE
56	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
57	0.757875	0.557670	0.000008	0.005004	4	6	COMPLETE
58	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
59	0.757880	0.557667	0.000008	0.006005	5	8	COMPLETE
60	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
61	0.757863	0.557659	0.000010	0.005004	6	7	COMPLETE
62	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
63	0.757910	0.557674	0.000008	0.005003	3	4	COMPLETE
64	0.757913	0.557689	0.000006	0.005003	4	7	COMPLETE
65	0.760080	0.558656	0.000003	0.006005	2	8	COMPLETE
66	0.757863	0.557659	0.000009	0.006004	7	7	COMPLETE
67	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
68	0.757863	0.557659	0.000008	0.004003	4	4	COMPLETE
69	0.759360	0.558167	0.000005	0.005004	2	6	COMPLETE
70	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
71	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
72	0.757910	0.557674	0.000009	0.005005	3	4	COMPLETE
73	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
74	0.766936	0.557370	0.000003	0.006004	1	7	COMPLETE
75	0.757863	0.557659	0.000008	0.005003	1	1	COMPLETE
76	0.757863	0.557659	0.000008	0.005003	6	7	COMPLETE
77	0.766144	0.557222	0.000004	0.004003	1	5	COMPLETE
78	0.757863	0.557659	0.000008	0.005004	2	2	COMPLETE
79	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
80	0.757863	0.557659	0.000008	0.004004	1	1	COMPLETE
81	0.762230	0.556504	0.000005	0.004004	1	4	COMPLETE
82	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
83	0.757584	0.555556	0.000008	0.005004	1	2	COMPLETE
84	0.758313	0.557870	0.000005	0.005003	3	7	COMPLETE
85	0.757863	0.557659	0.000010	0.005004	2	2	COMPLETE
86	0.757875	0.557670	0.000008	0.005004	4	6	COMPLETE
87	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
88	0.759278	0.558144	0.000006	0.005006	2	5	COMPLETE
89	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
90	0.757863	0.557659	0.000010	0.005004	6	7	COMPLETE

91	0.762230	0.556504	0.000005	0.005003	1	4	COMPLETE
92	0.757863	0.557656	0.000008	0.005004	5	7	COMPLETE
93	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
94	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
95	0.757913	0.557689	0.000007	0.006005	4	7	COMPLETE
96	0.739095	0.543230	0.000006	0.004003	1	3	COMPLETE
97	0.757584	0.555556	0.000009	0.004003	1	2	COMPLETE
98	0.757863	0.557659	0.000010	0.005005	6	8	COMPLETE
99	0.739095	0.543230	0.000005	0.005004	1	3	COMPLETE
100	0.757868	0.557663	0.000007	0.004004	4	5	COMPLETE
101	0.757584	0.555556	0.000010	0.005003	1	2	COMPLETE
102	0.757863	0.557659	0.000010	0.004004	1	1	COMPLETE
103	0.766144	0.557222	0.000004	0.005005	1	5	COMPLETE
104	0.739095	0.543230	0.000005	0.005004	1	3	COMPLETE
105	0.757863	0.557659	0.000010	0.004004	4	2	COMPLETE
106	0.769766	0.558685	0.000003	0.005003	1	8	COMPLETE
107	0.757863	0.557659	0.000010	0.005005	4	3	COMPLETE
108	0.757981	0.557722	0.000008	0.005004	4	8	COMPLETE
109	0.757863	0.557659	0.000011	0.005004	7	7	COMPLETE
110	0.757981	0.557722	0.000009	0.005004	4	8	COMPLETE
111	0.760080	0.558656	0.000004	0.006005	2	8	COMPLETE
112	0.758174	0.557804	0.000006	0.005004	3	5	COMPLETE
113	0.757863	0.557659	0.000011	0.004003	4	4	COMPLETE
114	0.757868	0.557663	0.000009	0.005004	4	5	COMPLETE
115	0.757863	0.557659	0.000009	0.005004	7	8	COMPLETE
116	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
117	0.757868	0.557663	0.000009	0.004003	4	5	COMPLETE
118	0.757863	0.557659	0.000008	0.005003	1	1	COMPLETE
119	0.757863	0.557659	0.000008	0.004004	1	1	COMPLETE
120	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
121	0.757863	0.557659	0.000010	0.005004	3	3	COMPLETE
122	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
123	0.757863	0.557659	0.000010	0.005003	6	6	COMPLETE
124	0.757863	0.557659	0.000008	0.005004	1	1	COMPLETE
125	0.759360	0.558167	0.000005	0.005004	2	6	COMPLETE
126	0.760080	0.558656	0.000004	0.005006	2	8	COMPLETE
127	0.760080	0.558656	0.000003	0.006005	2	8	COMPLETE
128	0.759278	0.558144	0.000006	0.004004	2	5	COMPLETE
129	0.760080	0.558656	0.000003	0.005004	2	8	COMPLETE
130	0.757834	0.557641	0.000009	0.005004	2	3	COMPLETE
131	0.739095	0.543230	0.000006	0.005003	1	3	COMPLETE
132	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
133	0.762230	0.556504	0.000005	0.004003	1	4	COMPLETE
134	0.757863	0.557659	0.000010	0.005004	6	6	COMPLETE
135	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
136	0.757863	0.557659	0.000008	0.004004	1	1	COMPLETE
137	0.762230	0.556504	0.000003	0.005004	1	4	COMPLETE
138	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
139	0.759703	0.558407	0.000005	0.006005	2	7	COMPLETE
140	0.766936	0.557370	0.000002	0.005004	1	7	COMPLETE
141	0.766936	0.557370	0.000002	0.006006	1	7	COMPLETE
142	0.757863	0.557659	0.000009	0.005005	6	7	COMPLETE
143	0.757875	0.557670	0.000007	0.005004	4	6	COMPLETE
144	0.760080	0.558656	0.000005	0.005004	2	8	COMPLETE
145	0.762230	0.556504	0.000004	0.005004	1	4	COMPLETE
146	0.758538	0.557796	0.000007	0.005004	2	4	COMPLETE



147	0.757868	0.557663	0.000009	0.005005	4	5	COMPLETE
148	0.762230	0.556504	0.000005	0.005004	1	4	COMPLETE
149	0.758538	0.557796	0.000005	0.005004	2	4	COMPLETE
150	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
151	0.757584	0.555556	0.000008	0.004003	1	2	COMPLETE
152	0.766144	0.557222	0.000004	0.004003	1	5	COMPLETE
153	0.757863	0.557659	0.000009	0.005004	5	5	COMPLETE
154	0.757875	0.557670	0.000009	0.005004	4	6	COMPLETE
155	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
156	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
157	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
158	0.757863	0.557659	0.000009	0.004003	5	6	COMPLETE
159	0.757981	0.557722	0.000005	0.005003	4	8	COMPLETE
160	0.757584	0.555556	0.000011	0.005004	1	2	COMPLETE
161	0.766144	0.557222	0.000003	0.004003	1	5	COMPLETE
162	0.762230	0.556504	0.000005	0.004003	1	4	COMPLETE
163	0.762230	0.556504	0.000005	0.004004	1	4	COMPLETE
164	0.759703	0.558407	0.000003	0.005005	2	7	COMPLETE
165	0.758174	0.557804	0.000007	0.005004	3	5	COMPLETE
166	0.739095	0.543230	0.000006	0.005004	1	3	COMPLETE
167	0.757863	0.557659	0.000013	0.005005	3	3	COMPLETE
168	0.757868	0.557663	0.000009	0.005004	4	5	COMPLETE
169	0.758174	0.557804	0.000007	0.005004	3	5	COMPLETE
170	0.757868	0.557663	0.000009	0.005005	4	5	COMPLETE
171	0.739095	0.543230	0.000006	0.004003	1	3	COMPLETE
172	0.766936	0.557370	0.000003	0.005004	1	7	COMPLETE
173	0.759278	0.558144	0.000005	0.005004	2	5	COMPLETE
174	0.760080	0.558656	0.000004	0.006005	2	8	COMPLETE
175	0.760080	0.558656	0.000004	0.005004	2	8	COMPLETE
176	0.757863	0.557659	0.000009	0.005005	1	1	COMPLETE
177	0.757868	0.557663	0.000010	0.004004	4	5	COMPLETE
178	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
179	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
180	0.758204	0.557804	0.000007	0.006005	3	6	COMPLETE
181	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
182	0.766144	0.557222	0.000004	0.004003	1	5	COMPLETE
183	0.758204	0.557804	0.000005	0.006005	3	6	COMPLETE
184	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
185	0.766144	0.557222	0.000004	0.005005	1	5	COMPLETE
186	0.739095	0.543230	0.000006	0.005004	1	3	COMPLETE
187	0.762230	0.556504	0.000003	0.004003	1	4	COMPLETE
188	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
189	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
190	0.766144	0.557222	0.000004	0.004003	1	5	COMPLETE
191	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
192	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
193	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
194	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
195	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
196	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
197	0.757863	0.557659	0.000009	0.004004	2	2	COMPLETE
198	0.758174	0.557804	0.000008	0.005004	3	5	COMPLETE
199	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
200	0.759278	0.558144	0.000004	0.004004	2	5	COMPLETE
201	0.762230	0.556504	0.000005	0.005004	1	4	COMPLETE
202	0.758538	0.557796	0.000007	0.005004	2	4	COMPLETE

203	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
204	0.757863	0.557659	0.000009	0.005004	5	6	COMPLETE
205	0.758538	0.557796	0.000007	0.005004	2	4	COMPLETE
206	0.762230	0.556504	0.000005	0.004003	1	4	COMPLETE
207	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
208	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
209	0.757863	0.557659	0.000014	0.005004	8	8	COMPLETE
210	0.757863	0.557659	0.000010	0.005004	4	3	COMPLETE
211	0.769766	0.558685	0.000003	0.005003	1	8	COMPLETE
212	0.766144	0.557222	0.000004	0.005005	1	5	COMPLETE
213	0.769766	0.558685	0.000002	0.005004	1	8	COMPLETE
214	0.757863	0.557659	0.000010	0.005004	4	4	COMPLETE
215	0.757863	0.557659	0.000012	0.006004	8	8	COMPLETE
216	0.757863	0.557659	0.000008	0.005005	1	1	COMPLETE
217	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
218	0.757863	0.557659	0.000008	0.006005	1	1	COMPLETE
219	0.766936	0.557370	0.000003	0.005004	1	7	COMPLETE
220	0.768860	0.558085	0.000003	0.006005	1	6	COMPLETE
221	0.757834	0.557641	0.000011	0.004003	2	3	COMPLETE
222	0.739095	0.543230	0.000006	0.004003	1	3	COMPLETE
223	0.758538	0.557796	0.000008	0.004003	2	4	COMPLETE
224	0.757863	0.557659	0.000009	0.006005	1	1	COMPLETE
225	0.757880	0.557667	0.000007	0.005004	5	8	COMPLETE
226	0.768860	0.558085	0.000004	0.005004	1	6	COMPLETE
227	0.757834	0.557641	0.000010	0.005004	2	3	COMPLETE
228	0.766936	0.557370	0.000002	0.006004	1	7	COMPLETE
229	0.757910	0.557674	0.000007	0.005004	3	4	COMPLETE
230	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
231	0.762230	0.556504	0.000005	0.005004	1	4	COMPLETE
232	0.760080	0.558656	0.000004	0.005003	2	8	COMPLETE
233	0.739095	0.543230	0.000005	0.005004	1	3	COMPLETE
234	0.759703	0.558407	0.000004	0.005004	2	7	COMPLETE
235	0.766144	0.557222	0.000004	0.004003	1	5	COMPLETE
236	0.757981	0.557722	0.000007	0.006005	4	8	COMPLETE
237	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
238	0.762230	0.556504	0.000005	0.004003	1	4	COMPLETE
239	0.758174	0.557804	0.000006	0.004004	3	5	COMPLETE
240	0.757584	0.555556	0.000011	0.005003	1	2	COMPLETE
241	0.757863	0.557659	0.000009	0.005005	1	1	COMPLETE
242	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
243	0.757834	0.557641	0.000011	0.004003	2	3	COMPLETE
244	0.757863	0.557656	0.000009	0.005004	5	7	COMPLETE
245	0.766936	0.557370	0.000003	0.005004	1	7	COMPLETE
246	0.762230	0.556504	0.000005	0.004003	1	4	COMPLETE
247	0.757863	0.557659	0.000009	0.006006	6	7	COMPLETE
248	0.757834	0.557641	0.000009	0.005004	2	3	COMPLETE
249	0.757834	0.557641	0.000009	0.004003	2	3	COMPLETE
250	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
251	0.758538	0.557796	0.000007	0.005004	2	4	COMPLETE
252	0.758538	0.557796	0.000007	0.005004	2	4	COMPLETE
253	0.757913	0.557689	0.000008	0.006005	4	7	COMPLETE
254	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
255	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
256	0.757584	0.555556	0.000011	0.003002	1	2	COMPLETE
257	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
258	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE

259	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
260	0.757868	0.557663	0.000008	0.005005	4	5	COMPLETE
261	0.757913	0.557689	0.000007	0.005004	4	7	COMPLETE
262	0.759703	0.558407	0.000004	0.005004	2	7	COMPLETE
263	0.760080	0.558656	0.000005	0.006005	2	8	COMPLETE
264	0.757863	0.557659	0.000011	0.006006	7	7	COMPLETE
265	0.739095	0.543230	0.000006	0.005005	1	3	COMPLETE
266	0.762230	0.556504	0.000003	0.005004	1	4	COMPLETE
267	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
268	0.757584	0.555556	0.000009	0.004003	1	2	COMPLETE
269	0.762230	0.556504	0.000005	0.004004	1	4	COMPLETE
270	0.757868	0.557663	0.000008	0.004004	4	5	COMPLETE
271	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
272	0.760080	0.558656	0.000004	0.006005	2	8	COMPLETE
273	0.757863	0.557659	0.000010	0.006006	7	8	COMPLETE
274	0.758313	0.557870	0.000006	0.006005	3	7	COMPLETE
275	0.766936	0.557370	0.000002	0.006005	1	7	COMPLETE
276	0.757981	0.557722	0.000007	0.006005	4	8	COMPLETE
277	0.768860	0.558085	0.000004	0.005004	1	6	COMPLETE
278	0.759703	0.558407	0.000005	0.004999	2	7	COMPLETE
279	0.758421	0.557930	0.000006	0.005005	3	8	COMPLETE
280	0.757913	0.557689	0.000008	0.006006	4	7	COMPLETE
281	0.758174	0.557804	0.000008	0.005004	3	5	COMPLETE
282	0.760080	0.558656	0.000003	0.006005	2	8	COMPLETE
283	0.757863	0.557659	0.000010	0.005004	1	1	COMPLETE
284	0.766144	0.557222	0.000003	0.004003	1	5	COMPLETE
285	0.758421	0.557930	0.000006	0.006005	3	8	COMPLETE
286	0.757863	0.557659	0.000009	0.006006	7	8	COMPLETE
287	0.762230	0.556504	0.000005	0.005004	1	4	COMPLETE
288	0.757863	0.557659	0.000010	0.005004	2	2	COMPLETE
289	0.758538	0.557796	0.000006	0.004003	2	4	COMPLETE
290	0.768860	0.558085	0.000003	0.006004	1	6	COMPLETE
291	0.768860	0.558085	0.000003	0.005006	1	6	COMPLETE
292	0.759278	0.558144	0.000006	0.004003	2	5	COMPLETE
293	0.762230	0.556504	0.000004	0.005004	1	4	COMPLETE
294	0.766936	0.557370	0.000003	0.006005	1	7	COMPLETE
295	0.757584	0.555556	0.000010	0.005005	1	2	COMPLETE
296	0.759278	0.558144	0.000006	0.004003	2	5	COMPLETE
297	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
298	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
299	0.757863	0.557659	0.000010	0.005003	5	5	COMPLETE
300	0.762230	0.556504	0.000004	0.004003	1	4	COMPLETE
301	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
302	0.757863	0.557656	0.000009	0.006006	5	7	COMPLETE
303	0.769766	0.558685	0.000003	0.005003	1	8	COMPLETE
304	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
305	0.768860	0.558085	0.000004	0.005004	1	6	COMPLETE
306	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
307	0.759278	0.558144	0.000006	0.005005	2	5	COMPLETE
308	0.757910	0.557674	0.000008	0.004003	3	4	COMPLETE
309	0.757584	0.555556	0.000009	0.005005	1	2	COMPLETE
310	0.760080	0.558656	0.000005	0.006005	2	8	COMPLETE
311	0.757863	0.557659	0.000012	0.005004	2	2	COMPLETE
312	0.762230	0.556504	0.000005	0.005004	1	4	COMPLETE
313	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
314	0.739095	0.543230	0.000006	0.004003	1	3	COMPLETE

315	0.769766	0.558685	0.000003	0.006006	1	8	COMPLETE
316	0.758174	0.557804	0.000006	0.004003	3	5	COMPLETE
317	0.759278	0.558144	0.000005	0.005003	2	5	COMPLETE
318	0.759703	0.558407	0.000004	0.005004	2	7	COMPLETE
319	0.768860	0.558085	0.000004	0.004005	1	6	COMPLETE
320	0.757863	0.557659	0.000010	0.005004	4	4	COMPLETE
321	0.757863	0.557659	0.000014	0.005004	5	6	COMPLETE
322	0.766936	0.557370	0.000003	0.005004	1	7	COMPLETE
323	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
324	0.762230	0.556504	0.000004	0.004003	1	4	COMPLETE
325	0.759278	0.558144	0.000007	0.004003	2	5	COMPLETE
326	0.757910	0.557674	0.000008	0.004003	3	4	COMPLETE
327	0.758421	0.557930	0.000006	0.006005	3	8	COMPLETE
328	0.759278	0.558144	0.000006	0.004003	2	5	COMPLETE
329	0.757863	0.557659	0.000011	0.004003	2	2	COMPLETE
330	0.768860	0.558085	0.000004	0.006005	1	6	COMPLETE
331	0.757910	0.557674	0.000008	0.005004	3	4	COMPLETE
332	0.757910	0.557674	0.000009	0.005004	3	4	COMPLETE
333	0.759703	0.558407	0.000005	0.006005	2	7	COMPLETE
334	0.739095	0.543230	0.000005	0.004003	1	3	COMPLETE
335	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
336	0.758538	0.557796	0.000008	0.004003	2	4	COMPLETE
337	0.768860	0.558085	0.000003	0.005005	1	6	COMPLETE
338	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
339	0.757584	0.555556	0.000009	0.004003	1	2	COMPLETE
340	0.768860	0.558085	0.000004	0.005003	1	6	COMPLETE
341	0.757863	0.557659	0.000010	0.005004	8	8	COMPLETE
342	0.757863	0.557659	0.000009	0.004417	1	1	COMPLETE
343	0.766144	0.557222	0.000004	0.004003	1	5	COMPLETE
344	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
345	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
346	0.766144	0.557222	0.000003	0.004179	1	5	COMPLETE
347	0.762230	0.556504	0.000004	0.004004	1	4	COMPLETE
348	0.766144	0.557222	0.000003	0.004003	1	5	COMPLETE
349	0.768860	0.558085	0.000004	0.004003	1	6	COMPLETE
350	0.769766	0.558685	0.000002	0.006005	1	8	COMPLETE
351	0.766936	0.557370	0.000002	0.005003	1	7	COMPLETE
352	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
353	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
354	0.757863	0.557659	0.000010	0.005004	2	2	COMPLETE
355	0.757863	0.557659	0.000010	0.004003	2	2	COMPLETE
356	0.759703	0.558407	0.000005	0.005003	2	7	COMPLETE
357	0.757863	0.557659	0.000009	0.005005	1	1	COMPLETE
358	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
359	0.757913	0.557689	0.000008	0.005004	4	7	COMPLETE
360	0.757834	0.557641	0.000009	0.005003	2	3	COMPLETE
361	0.766144	0.557222	0.000004	0.004506	1	5	COMPLETE
362	0.757863	0.557659	0.000010	0.005004	5	6	COMPLETE
363	0.759360	0.558167	0.000006	0.005004	2	6	COMPLETE
364	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
365	0.766144	0.557222	0.000004	0.004507	1	5	COMPLETE
366	0.766144	0.557222	0.000004	0.005005	1	5	COMPLETE
367	0.760080	0.558656	0.000004	0.006005	2	8	COMPLETE
368	0.757863	0.557659	0.000009	0.005001	6	6	COMPLETE
369	0.766936	0.557370	0.000003	0.005004	1	7	COMPLETE
370	0.757981	0.557722	0.000008	0.005004	4	8	COMPLETE

371	0.757584	0.555556	0.000009	0.005003	1	2	COMPLETE
372	0.759278	0.558144	0.000004	0.005003	2	5	COMPLETE
373	0.757863	0.557659	0.000012	0.005004	5	5	COMPLETE
374	0.757913	0.557689	0.000006	0.006004	4	7	COMPLETE
375	0.759360	0.558167	0.000006	0.005004	2	6	COMPLETE
376	0.769766	0.558685	0.000002	0.005004	1	8	COMPLETE
377	0.758204	0.557804	0.000007	0.004003	3	6	COMPLETE
378	0.759278	0.558144	0.000005	0.005004	2	5	COMPLETE
379	0.739095	0.543230	0.000006	0.005005	1	3	COMPLETE
380	0.760080	0.558656	0.000004	0.005004	2	8	COMPLETE
381	0.758174	0.557804	0.000008	0.005004	3	5	COMPLETE
382	0.757875	0.557670	0.000010	0.005004	4	6	COMPLETE
383	0.757863	0.557659	0.000013	0.005004	2	2	COMPLETE
384	0.769766	0.558685	0.000002	0.005004	1	8	COMPLETE
385	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
386	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
387	0.757910	0.557674	0.000011	0.005004	3	4	COMPLETE
388	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
389	0.759703	0.558407	0.000004	0.006006	2	7	COMPLETE
390	0.766936	0.557370	0.000002	0.005004	1	7	COMPLETE
391	0.757834	0.557641	0.000009	0.005004	2	3	COMPLETE
392	0.757863	0.557659	0.000011	0.005004	3	3	COMPLETE
393	0.760080	0.558656	0.000004	0.005004	2	8	COMPLETE
394	0.759703	0.558407	0.000005	0.005005	2	7	COMPLETE
395	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
396	0.757868	0.557663	0.000011	0.005004	4	5	COMPLETE
397	0.762230	0.556504	0.000004	0.005004	1	4	COMPLETE
398	0.757863	0.557659	0.000009	0.006005	1	1	COMPLETE
399	0.739095	0.543230	0.000006	0.005004	1	3	COMPLETE
400	0.758538	0.557796	0.000008	0.004003	2	4	COMPLETE
401	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
402	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
403	0.760080	0.558656	0.000005	0.005005	2	8	COMPLETE
404	0.757863	0.557659	0.000010	0.004003	5	5	COMPLETE
405	0.758313	0.557870	0.000006	0.005003	3	7	COMPLETE
406	0.757863	0.557659	0.000011	0.005004	5	5	COMPLETE
407	0.739095	0.543230	0.000006	0.005004	1	3	COMPLETE
408	0.757863	0.557659	0.000008	0.005005	1	1	COMPLETE
409	0.766936	0.557370	0.000003	0.005003	1	7	COMPLETE
410	0.757863	0.557659	0.000011	0.004003	2	2	COMPLETE
411	0.758204	0.557804	0.000008	0.004003	3	6	COMPLETE
412	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
413	0.766936	0.557370	0.000003	0.005004	1	7	COMPLETE
414	0.760080	0.558656	0.000005	0.005003	2	8	COMPLETE
415	0.757863	0.557656	0.000010	0.006005	5	7	COMPLETE
416	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
417	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
418	0.757981	0.557722	0.000007	0.006004	4	8	COMPLETE
419	0.757584	0.555556	0.000011	0.005004	1	2	COMPLETE
420	0.759703	0.558407	0.000004	0.006005	2	7	COMPLETE
421	0.757863	0.557659	0.000012	0.005004	4	4	COMPLETE
422	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
423	0.757863	0.557659	0.000008	0.005003	1	1	COMPLETE
424	0.758313	0.557870	0.000007	0.005004	3	7	COMPLETE
425	0.757863	0.557659	0.000011	0.005004	5	5	COMPLETE
426	0.757863	0.557659	0.000010	0.005004	4	4	COMPLETE

427	0.758313	0.557870	0.000007	0.005004	3	7	COMPLETE
428	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
429	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
430	0.739095	0.543230	0.000007	0.004003	1	3	COMPLETE
431	0.757863	0.557659	0.000014	0.005004	5	5	COMPLETE
432	0.739095	0.543230	0.000006	0.005004	1	3	COMPLETE
433	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
434	0.757863	0.557659	0.000010	0.005004	2	2	COMPLETE
435	0.759703	0.558407	0.000005	0.005004	2	7	COMPLETE
436	0.757868	0.557663	0.000011	0.005005	4	5	COMPLETE
437	0.769766	0.558685	0.000002	0.007006	1	8	COMPLETE
438	0.758538	0.557796	0.000008	0.004003	2	4	COMPLETE
439	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
440	0.758313	0.557870	0.000006	0.005004	3	7	COMPLETE
441	0.760080	0.558656	0.000003	0.006005	2	8	COMPLETE
442	0.759278	0.558144	0.000005	0.005004	2	5	COMPLETE
443	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
444	0.759278	0.558144	0.000006	0.006005	2	5	COMPLETE
445	0.768860	0.558085	0.000003	0.006005	1	6	COMPLETE
446	0.759278	0.558144	0.000005	0.005004	2	5	COMPLETE
447	0.757863	0.557659	0.000009	0.006005	7	8	COMPLETE
448	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
449	0.739095	0.543230	0.000007	0.004003	1	3	COMPLETE
450	0.757981	0.557722	0.000007	0.006005	4	8	COMPLETE
451	0.766936	0.557370	0.000002	0.005004	1	7	COMPLETE
452	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
453	0.757863	0.557656	0.000009	0.006005	5	7	COMPLETE
454	0.757584	0.555556	0.000008	0.005004	1	2	COMPLETE
455	0.766936	0.557370	0.000003	0.006005	1	7	COMPLETE
456	0.768860	0.558085	0.000004	0.005004	1	6	COMPLETE
457	0.757868	0.557663	0.000008	0.005004	4	5	COMPLETE
458	0.757863	0.557659	0.000008	0.005005	1	1	COMPLETE
459	0.768860	0.558085	0.000004	0.005004	1	6	COMPLETE
460	0.757863	0.557659	0.000014	0.004003	2	2	COMPLETE
461	0.760080	0.558656	0.000003	0.005004	2	8	COMPLETE
462	0.757981	0.557722	0.000007	0.006006	4	8	COMPLETE
463	0.759278	0.558144	0.000006	0.004003	2	5	COMPLETE
464	0.759360	0.558167	0.000006	0.005005	2	6	COMPLETE
465	0.757863	0.557659	0.000010	0.004003	6	6	COMPLETE
466	0.757863	0.557659	0.000010	0.005005	5	6	COMPLETE
467	0.739095	0.543230	0.000007	0.005004	1	3	COMPLETE
468	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
469	0.757863	0.557659	0.000009	0.004004	1	1	COMPLETE
470	0.757584	0.555556	0.000011	0.004003	1	2	COMPLETE
471	0.757863	0.557659	0.000011	0.004004	2	2	COMPLETE
472	0.769766	0.558685	0.000002	0.005006	1	8	COMPLETE
473	0.766936	0.557370	0.000002	0.006005	1	7	COMPLETE
474	0.760080	0.558656	0.000003	0.005240	2	8	COMPLETE
475	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
476	0.766144	0.557222	0.000004	0.005005	1	5	COMPLETE
477	0.757834	0.557641	0.000010	0.004003	2	3	COMPLETE
478	0.757868	0.557663	0.000012	0.004003	4	5	COMPLETE
479	0.757863	0.557659	0.000010	0.005004	6	6	COMPLETE
480	0.758538	0.557796	0.000008	0.004003	2	4	COMPLETE
481	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
482	0.757910	0.557674	0.000009	0.004003	3	4	COMPLETE

483	0.769766	0.558685	0.000002	0.005004	1	8	COMPLETE
484	0.757863	0.557659	0.000010	0.004003	4	4	COMPLETE
485	0.757863	0.557659	0.000010	0.005005	7	8	COMPLETE
486	0.762230	0.556504	0.000003	0.005004	1	4	COMPLETE
487	0.759278	0.558144	0.000007	0.004003	2	5	COMPLETE
488	0.758421	0.557930	0.000006	0.006005	3	8	COMPLETE
489	0.757863	0.557659	0.000011	0.005004	7	7	COMPLETE
490	0.757863	0.557659	0.000008	0.005003	1	1	COMPLETE
491	0.757584	0.555556	0.000009	0.004004	1	2	COMPLETE
492	0.766936	0.557370	0.000003	0.005005	1	7	COMPLETE
493	0.757863	0.557659	0.000009	0.006005	1	1	COMPLETE
494	0.759360	0.558167	0.000006	0.005004	2	6	COMPLETE
495	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
496	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
497	0.769766	0.558685	0.000002	0.005004	1	8	COMPLETE
498	0.757863	0.557659	0.000010	0.005004	3	3	COMPLETE
499	0.768860	0.558085	0.000003	0.006005	1	6	COMPLETE
500	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
501	0.757868	0.557663	0.000009	0.005004	4	5	COMPLETE
502	0.757863	0.557659	0.000009	0.006004	6	8	COMPLETE
503	0.757863	0.557659	0.000009	0.005003	1	1	COMPLETE
504	0.768860	0.558085	0.000004	0.005003	1	6	COMPLETE
505	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
506	0.758204	0.557804	0.000008	0.006005	3	6	COMPLETE
507	0.757863	0.557659	0.000011	0.005004	5	5	COMPLETE
508	0.757880	0.557667	0.000011	0.005004	5	8	COMPLETE
509	0.757863	0.557659	0.000010	0.005004	3	3	COMPLETE
510	0.769766	0.558685	0.000002	0.005005	1	8	COMPLETE
511	0.757868	0.557663	0.000010	0.004003	4	5	COMPLETE
512	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
513	0.759703	0.558407	0.000005	0.005004	2	7	COMPLETE
514	0.762230	0.556504	0.000003	0.005004	1	4	COMPLETE
515	0.739095	0.543230	0.000007	0.004003	1	3	COMPLETE
516	0.758313	0.557870	0.000006	0.005004	3	7	COMPLETE
517	0.762230	0.556504	0.000003	0.004003	1	4	COMPLETE
518	0.759278	0.558144	0.000006	0.004003	2	5	COMPLETE
519	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
520	0.757863	0.557659	0.000013	0.004003	2	2	COMPLETE
521	0.758204	0.557804	0.000007	0.004003	3	6	COMPLETE
522	0.739095	0.543230	0.000005	0.004003	1	3	COMPLETE
523	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
524	0.757981	0.557722	0.000006	0.005003	4	8	COMPLETE
525	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
526	0.757863	0.557659	0.000010	0.005004	7	7	COMPLETE
527	0.757863	0.557659	0.000013	0.005003	2	2	COMPLETE
528	0.757910	0.557674	0.000011	0.004003	3	4	COMPLETE
529	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
530	0.758174	0.557804	0.000008	0.004004	3	5	COMPLETE
531	0.757863	0.557659	0.000009	0.005004	1	1	COMPLETE
532	0.757863	0.557659	0.000009	0.004004	1	1	COMPLETE
533	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
534	0.757863	0.557659	0.000014	0.005004	5	5	COMPLETE
535	0.757863	0.557659	0.000008	0.004867	1	1	COMPLETE
536	0.757880	0.557667	0.000008	0.005996	5	8	COMPLETE
537	0.758174	0.557804	0.000008	0.005004	3	5	COMPLETE
538	0.757863	0.557659	0.000011	0.005004	5	5	COMPLETE

539	0.766144	0.557222	0.000003	0.004508	1	5	COMPLETE
540	0.768860	0.558085	0.000003	0.005005	1	6	COMPLETE
541	0.769766	0.558685	0.000003	0.005003	1	8	COMPLETE
542	0.758538	0.557796	0.000008	0.004004	2	4	COMPLETE
543	0.757863	0.557659	0.000013	0.005004	4	4	COMPLETE
544	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
545	0.769766	0.558685	0.000002	0.005004	1	8	COMPLETE
546	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
547	0.757863	0.557656	0.000009	0.005004	5	7	COMPLETE
548	0.757863	0.557659	0.000010	0.004003	4	2	COMPLETE
549	0.757863	0.557659	0.000010	0.004003	2	2	COMPLETE
550	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
551	0.766144	0.557222	0.000003	0.004003	1	5	COMPLETE
552	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
553	0.759703	0.558407	0.000005	0.006005	2	7	COMPLETE
554	0.757863	0.557659	0.000010	0.005004	3	3	COMPLETE
555	0.759278	0.558144	0.000006	0.004003	2	5	COMPLETE
556	0.757863	0.557659	0.000010	0.006004	6	8	COMPLETE
557	0.757863	0.557659	0.000010	0.005004	4	4	COMPLETE
558	0.759278	0.558144	0.000007	0.004003	2	5	COMPLETE
559	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
560	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
561	0.739095	0.543230	0.000007	0.005004	1	3	COMPLETE
562	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
563	0.759703	0.558407	0.000005	0.006006	2	7	COMPLETE
564	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
565	0.758174	0.557804	0.000007	0.004004	3	5	COMPLETE
566	0.757834	0.557641	0.000011	0.005004	2	3	COMPLETE
567	0.759703	0.558407	0.000005	0.005004	2	7	COMPLETE
568	0.759278	0.558144	0.000006	0.005004	2	5	COMPLETE
569	0.757880	0.557667	0.000006	0.005004	5	8	COMPLETE
570	0.757863	0.557659	0.000013	0.004003	4	2	COMPLETE
571	0.758538	0.557796	0.000007	0.004003	2	4	COMPLETE
572	0.757863	0.557659	0.000009	0.004003	1	1	COMPLETE
573	0.762230	0.556504	0.000005	0.004003	1	4	COMPLETE
574	0.759278	0.558144	0.000006	0.005005	2	5	COMPLETE
575	0.759278	0.558144	0.000007	0.004003	2	5	COMPLETE
576	0.758174	0.557804	0.000007	0.005004	3	5	COMPLETE
577	0.757834	0.557641	0.000008	0.005004	2	3	COMPLETE
578	0.757584	0.555556	0.000009	0.005004	1	2	COMPLETE
579	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
580	0.762230	0.556504	0.000005	0.005004	1	4	COMPLETE
581	0.757584	0.555556	0.000008	0.005004	1	2	COMPLETE
582	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
583	0.757863	0.557659	0.000008	0.004003	1	1	COMPLETE
584	0.760080	0.558656	0.000004	0.005003	2	8	COMPLETE
585	0.757863	0.557659	0.000010	0.004003	5	5	COMPLETE
586	0.759360	0.558167	0.000006	0.005004	2	6	COMPLETE
587	0.758421	0.557930	0.000007	0.005005	3	8	COMPLETE
588	0.760080	0.558656	0.000004	0.006005	2	8	COMPLETE
589	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
590	0.758174	0.557804	0.000007	0.004003	3	5	COMPLETE
591	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
592	0.739095	0.543230	0.000006	0.004003	1	3	COMPLETE
593	0.739095	0.543230	0.000007	0.004003	1	3	COMPLETE
594	0.762230	0.556504	0.000004	0.004003	1	4	COMPLETE



595	0.760080	0.558656	0.000004	0.005382	2	8	COMPLETE
596	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
597	0.768860	0.558085	0.000003	0.005004	1	6	COMPLETE
598	0.759703	0.558407	0.000004	0.005004	2	7	COMPLETE
599	0.760080	0.558656	0.000003	0.006005	2	8	COMPLETE
600	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
601	0.758174	0.557804	0.000007	0.005004	3	5	COMPLETE
602	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
603	0.757880	0.557667	0.000008	0.005004	5	8	COMPLETE
604	0.757863	0.557659	0.000011	0.005004	2	2	COMPLETE
605	0.757863	0.557659	0.000011	0.004003	2	2	COMPLETE
606	0.768860	0.558085	0.000004	0.005004	1	6	COMPLETE
607	0.766144	0.557222	0.000003	0.004004	1	5	COMPLETE
608	0.757863	0.557659	0.000009	0.006005	6	7	COMPLETE
609	0.766144	0.557222	0.000003	0.005004	1	5	COMPLETE
610	0.769766	0.558685	0.000003	0.006005	1	8	COMPLETE
611	0.760080	0.558656	0.000004	0.005004	2	8	COMPLETE
612	0.758538	0.557796	0.000008	0.004003	2	4	COMPLETE
613	0.759703	0.558407	0.000004	0.005005	2	7	COMPLETE
614	0.769766	0.558685	0.000003	0.005004	1	8	COMPLETE
615	0.757880	0.557667	0.000008	0.006005	5	8	COMPLETE
616	0.759703	0.558407	0.000005	0.006005	2	7	COMPLETE
617	0.766144	0.557222	0.000004	0.005004	1	5	COMPLETE
618	0.757863	0.557659	0.000008	0.004004	1	1	COMPLETE
619	0.769766	0.558685	0.000003	0.006006	1	8	COMPLETE
620	0.757863	0.557659	0.000010	0.004003	2	2	COMPLETE
621	0.757834	0.557641	0.000009	0.005004	2	3	COMPLETE
622	0.757834	0.557641	0.000010	0.004003	2	3	COMPLETE
623	0.757863	0.557659	0.000010	0.005003	7	8	COMPLETE
624	0.760080	0.558656	0.000004	0.005004	2	8	COMPLETE

## 2.2. Hyper parameter optimization for 8100 keyframes

number	values_0	values_1	values_2	values_3	params_nprobe	params_splits	state
0	0.742905	0.538328	0.000080	0.111101	1	10	COMPLETE
1	0.745010	0.552672	0.000507	0.086078	5	7	COMPLETE
2	0.744998	0.552663	0.000571	0.079071	5	6	COMPLETE
3	0.746148	0.553041	0.000188	0.112101	4	12	COMPLETE
4	0.719983	0.534810	0.000272	0.078071	1	2	COMPLETE
5	0.745192	0.552776	0.000307	0.107097	5	11	COMPLETE
6	0.746148	0.553041	0.000170	0.099089	4	12	COMPLETE
7	0.744982	0.552655	0.000301	0.081073	1	1	COMPLETE
8	0.746317	0.553027	0.000255	0.085928	2	5	COMPLETE
9	0.744982	0.552655	0.000299	0.081072	1	1	COMPLETE
10	0.719983	0.534810	0.000232	0.075068	1	2	COMPLETE
11	0.719983	0.534810	0.000237	0.078070	1	2	COMPLETE
12	0.744957	0.552655	0.000589	0.080073	5	5	COMPLETE
13	0.746606	0.553138	0.000190	0.085077	2	7	COMPLETE
14	0.745030	0.552689	0.000500	0.082074	4	5	COMPLETE
15	0.745086	0.552557	0.000359	0.081073	2	3	COMPLETE
16	0.752587	0.551374	0.000133	0.082074	1	5	COMPLETE
17	0.745606	0.552962	0.000246	0.088079	3	8	COMPLETE
18	0.744946	0.552655	0.000387	0.077069	2	2	COMPLETE
19	0.745553	0.552929	0.000233	0.109099	4	11	COMPLETE
20	0.745045	0.552687	0.000320	0.099089	7	12	COMPLETE

21	0.745118	0.552728	0.000373	0.085077	4	7	COMPLETE
22	0.744982	0.552655	0.000638	0.080072	6	6	COMPLETE
23	0.745010	0.552672	0.000473	0.083075	5	7	COMPLETE
24	0.744946	0.552655	0.000398	0.076069	2	2	COMPLETE
25	0.719983	0.534810	0.000234	0.075068	1	2	COMPLETE
26	0.744982	0.552655	0.000673	0.099088	12	12	COMPLETE
27	0.745045	0.552687	0.000320	0.102091	7	12	COMPLETE
28	0.745127	0.552730	0.000260	0.098088	6	12	COMPLETE
29	0.759127	0.553536	0.000099	0.085077	1	7	COMPLETE
30	0.744981	0.552664	0.000483	0.108097	8	10	COMPLETE
31	0.745382	0.552866	0.000300	0.081074	3	6	COMPLETE
32	0.745377	0.552820	0.000288	0.087079	3	7	COMPLETE
33	0.745869	0.552784	0.000312	0.078070	2	4	COMPLETE
34	0.744982	0.552655	0.000346	0.082074	1	1	COMPLETE
35	0.745382	0.552866	0.000327	0.083075	3	6	COMPLETE
36	0.744981	0.552661	0.000583	0.089081	7	8	COMPLETE
37	0.744946	0.552655	0.000380	0.077069	2	2	COMPLETE
38	0.744977	0.552655	0.000562	0.076069	4	4	COMPLETE
39	0.744982	0.552655	0.000305	0.081073	1	1	COMPLETE
40	0.744973	0.552655	0.000667	0.091082	8	8	COMPLETE
41	0.744981	0.552661	0.000586	0.091083	7	8	COMPLETE
42	0.744981	0.552664	0.000487	0.107097	8	10	COMPLETE
43	0.745270	0.552786	0.000368	0.081073	3	5	COMPLETE
44	0.745086	0.552557	0.000351	0.081073	2	3	COMPLETE
45	0.746606	0.553138	0.000191	0.084074	2	7	COMPLETE
46	0.744946	0.552655	0.000380	0.077069	2	2	COMPLETE
47	0.744946	0.552655	0.000397	0.076073	2	2	COMPLETE
48	0.744995	0.552662	0.000498	0.102093	7	9	COMPLETE
49	0.747393	0.553526	0.000166	0.088080	2	8	COMPLETE
50	0.744981	0.552661	0.000582	0.087079	7	8	COMPLETE
51	0.745127	0.552730	0.000256	0.103092	6	12	COMPLETE
52	0.746775	0.553273	0.000184	0.109097	3	11	COMPLETE
53	0.740991	0.546786	0.000200	0.081073	1	3	COMPLETE
54	0.744982	0.552655	0.000298	0.082073	1	1	COMPLETE
55	0.745606	0.552962	0.000241	0.087078	3	8	COMPLETE
56	0.759127	0.553536	0.000099	0.084075	1	7	COMPLETE
57	0.746317	0.553027	0.000252	0.081073	2	5	COMPLETE
58	0.744946	0.552655	0.000370	0.077069	2	2	COMPLETE
59	0.719983	0.534810	0.000239	0.076068	1	2	COMPLETE
60	0.744982	0.552655	0.000645	0.080073	6	6	COMPLETE
61	0.740991	0.546786	0.000198	0.081074	1	3	COMPLETE
62	0.746576	0.553169	0.000220	0.079072	2	6	COMPLETE
63	0.744981	0.552661	0.000574	0.091083	7	8	COMPLETE
64	0.744957	0.552655	0.000595	0.082074	5	5	COMPLETE
65	0.745270	0.552786	0.000367	0.083075	3	5	COMPLETE
66	0.744976	0.552655	0.000647	0.088079	7	7	COMPLETE
67	0.752587	0.551374	0.000135	0.081074	1	5	COMPLETE
68	0.744946	0.552655	0.000381	0.077070	2	2	COMPLETE
69	0.746576	0.553169	0.000215	0.081074	2	6	COMPLETE
70	0.727798	0.527254	0.000063	0.103093	1	12	COMPLETE
71	0.719983	0.534810	0.000233	0.078071	1	2	COMPLETE
72	0.744982	0.552655	0.000302	0.081072	1	1	COMPLETE
73	0.745076	0.552714	0.000421	0.080072	4	6	COMPLETE
74	0.744966	0.552655	0.000667	0.117106	11	11	COMPLETE
75	0.744976	0.552655	0.000648	0.086078	8	7	COMPLETE
76	0.744981	0.552659	0.000559	0.084075	6	7	COMPLETE

77	0.744946	0.552655	0.000385	0.076068	2	2	COMPLETE
78	0.744995	0.552662	0.000503	0.099089	7	9	COMPLETE
79	0.745192	0.552776	0.000302	0.117106	5	11	COMPLETE
80	0.745010	0.552672	0.000468	0.084076	5	7	COMPLETE
81	0.747393	0.553526	0.000162	0.089080	2	8	COMPLETE
82	0.745270	0.552786	0.000370	0.081074	3	5	COMPLETE
83	0.745331	0.552814	0.000224	0.099090	5	12	COMPLETE
84	0.744957	0.552655	0.000511	0.081079	3	3	COMPLETE
85	0.744995	0.552662	0.000496	0.095086	7	9	COMPLETE
86	0.746606	0.553138	0.000190	0.089080	2	7	COMPLETE
87	0.746148	0.553041	0.000167	0.101091	4	12	COMPLETE
88	0.746606	0.553138	0.000189	0.084076	2	7	COMPLETE
89	0.748259	0.548764	0.000161	0.078071	1	4	COMPLETE
90	0.740991	0.546786	0.000199	0.081072	1	3	COMPLETE
91	0.744946	0.552655	0.000415	0.077070	2	2	COMPLETE
92	0.744982	0.552655	0.000375	0.082074	1	1	COMPLETE
93	0.746576	0.553169	0.000216	0.079071	2	6	COMPLETE
94	0.744977	0.552655	0.000563	0.076068	4	4	COMPLETE
95	0.728520	0.529675	0.000067	0.116104	1	11	COMPLETE
96	0.744995	0.552662	0.000501	0.103092	7	9	COMPLETE
97	0.744982	0.552655	0.000298	0.081072	1	1	COMPLETE
98	0.744982	0.552655	0.000296	0.081073	1	1	COMPLETE
99	0.746576	0.553169	0.000216	0.081074	2	6	COMPLETE
100	0.744946	0.552655	0.000385	0.077069	2	2	COMPLETE
101	0.750489	0.552462	0.000118	0.103093	2	10	COMPLETE
102	0.744982	0.552655	0.000635	0.081074	6	6	COMPLETE
103	0.748259	0.548764	0.000159	0.076069	1	4	COMPLETE
104	0.719983	0.534810	0.000230	0.075067	1	2	COMPLETE
105	0.745118	0.552728	0.000378	0.087080	4	7	COMPLETE
106	0.744998	0.552663	0.000536	0.079071	5	6	COMPLETE
107	0.744946	0.552655	0.000388	0.077069	2	2	COMPLETE
108	0.744982	0.552655	0.000642	0.079071	6	6	COMPLETE
109	0.746576	0.553169	0.000217	0.082073	2	6	COMPLETE
110	0.744957	0.552655	0.000516	0.082074	6	3	COMPLETE
111	0.740991	0.546786	0.000199	0.081073	1	3	COMPLETE
112	0.744946	0.552655	0.000398	0.078070	2	2	COMPLETE
113	0.747393	0.553526	0.000165	0.095086	2	8	COMPLETE
114	0.740991	0.546786	0.000201	0.081073	1	3	COMPLETE
115	0.719983	0.534810	0.000237	0.076068	1	2	COMPLETE
116	0.744994	0.552662	0.000442	0.104094	9	12	COMPLETE
117	0.719983	0.534810	0.000232	0.077069	1	2	COMPLETE
118	0.719983	0.534810	0.000227	0.077069	1	2	COMPLETE
119	0.719983	0.534810	0.000234	0.076068	1	2	COMPLETE
120	0.746576	0.553169	0.000217	0.079071	2	6	COMPLETE
121	0.752587	0.551374	0.000133	0.080072	1	5	COMPLETE
122	0.746576	0.553169	0.000219	0.078070	2	6	COMPLETE
123	0.744982	0.552655	0.000301	0.082074	1	1	COMPLETE
124	0.744982	0.552655	0.000298	0.081074	1	1	COMPLETE
125	0.752843	0.550838	0.000115	0.081073	1	6	COMPLETE
126	0.719983	0.534810	0.000225	0.076069	1	2	COMPLETE
127	0.744981	0.552659	0.000567	0.084075	6	7	COMPLETE
128	0.745048	0.552696	0.000416	0.091082	5	8	COMPLETE
129	0.745382	0.552866	0.000304	0.079071	3	6	COMPLETE
130	0.719983	0.534810	0.000243	0.080072	1	2	COMPLETE
131	0.742905	0.538328	0.000074	0.105094	1	10	COMPLETE
132	0.744946	0.552655	0.000384	0.077070	3	2	COMPLETE

133	0.744981	0.552659	0.000566	0.085078	6	7	COMPLETE
134	0.759127	0.553536	0.000097	0.086077	1	7	COMPLETE
135	0.744965	0.552655	0.000679	0.102092	10	10	COMPLETE
136	0.744969	0.552658	0.000583	0.101091	9	10	COMPLETE
137	0.719983	0.534810	0.000240	0.076069	1	2	COMPLETE
138	0.719983	0.534810	0.000233	0.076069	1	2	COMPLETE
139	0.745118	0.552728	0.000379	0.084075	4	7	COMPLETE
140	0.745331	0.552814	0.000213	0.103093	5	12	COMPLETE
141	0.744981	0.552661	0.000590	0.088078	7	8	COMPLETE
142	0.752843	0.550838	0.000112	0.079071	1	6	COMPLETE
143	0.744998	0.552663	0.000534	0.078070	5	6	COMPLETE
144	0.744982	0.552655	0.000642	0.079072	6	6	COMPLETE
145	0.744946	0.552655	0.000375	0.076069	2	2	COMPLETE
146	0.746576	0.553169	0.000215	0.082075	2	6	COMPLETE
147	0.746576	0.553169	0.000215	0.081073	2	6	COMPLETE
148	0.744982	0.552655	0.000301	0.081073	1	1	COMPLETE
149	0.744946	0.552655	0.000388	0.076068	2	2	COMPLETE
150	0.744982	0.552655	0.000301	0.080072	1	1	COMPLETE
151	0.745067	0.552713	0.000372	0.115104	6	11	COMPLETE
152	0.752587	0.551374	0.000135	0.080073	1	5	COMPLETE
153	0.742905	0.538328	0.000073	0.101091	1	10	COMPLETE
154	0.719983	0.534810	0.000233	0.077572	1	2	COMPLETE
155	0.745869	0.552784	0.000303	0.074066	2	4	COMPLETE
156	0.745071	0.552691	0.000457	0.075068	3	4	COMPLETE
157	0.752843	0.550838	0.000113	0.080575	1	6	COMPLETE
158	0.744998	0.552663	0.000536	0.079071	5	6	COMPLETE
159	0.744965	0.552655	0.000668	0.103092	10	10	COMPLETE
160	0.744976	0.552655	0.000645	0.085077	7	7	COMPLETE
161	0.744946	0.552655	0.000392	0.076067	2	2	COMPLETE
162	0.744946	0.552655	0.000386	0.077070	2	2	COMPLETE
163	0.744976	0.552655	0.000668	0.087079	7	7	COMPLETE
164	0.752587	0.551374	0.000145	0.086078	1	5	COMPLETE
165	0.740991	0.546786	0.000202	0.080072	1	3	COMPLETE
166	0.744995	0.552662	0.000498	0.096088	7	9	COMPLETE
167	0.744946	0.552655	0.000389	0.077070	2	2	COMPLETE
168	0.747780	0.543886	0.000081	0.100090	1	9	COMPLETE
169	0.747780	0.543886	0.000082	0.094085	1	9	COMPLETE
170	0.744982	0.552655	0.000299	0.082073	1	1	COMPLETE
171	0.747393	0.553526	0.000166	0.091084	2	8	COMPLETE
172	0.719983	0.534810	0.000235	0.077069	1	2	COMPLETE
173	0.745086	0.552557	0.000353	0.079071	2	3	COMPLETE
174	0.745877	0.553022	0.000207	0.106097	4	10	COMPLETE
175	0.748259	0.548764	0.000159	0.079071	1	4	COMPLETE
176	0.744982	0.552655	0.000296	0.081073	1	1	COMPLETE
177	0.745067	0.552713	0.000373	0.111101	6	11	COMPLETE
178	0.748535	0.553473	0.000130	0.099090	3	12	COMPLETE
179	0.746576	0.553169	0.000213	0.082074	2	6	COMPLETE
180	0.752843	0.550838	0.000115	0.081073	1	6	COMPLETE
181	0.745071	0.552691	0.000450	0.076068	3	4	COMPLETE
182	0.745076	0.552714	0.000425	0.079071	4	6	COMPLETE
183	0.745086	0.552557	0.000352	0.079069	2	3	COMPLETE
184	0.744977	0.552655	0.000568	0.075069	4	4	COMPLETE
185	0.740991	0.546786	0.000201	0.080579	1	3	COMPLETE
186	0.759127	0.553536	0.000097	0.087078	1	7	COMPLETE
187	0.761731	0.554189	0.000086	0.088080	1	8	COMPLETE
188	0.744982	0.552655	0.000294	0.083075	1	1	COMPLETE

189	0.745086	0.552557	0.000350	0.085077	2	3	COMPLETE
190	0.745270	0.552786	0.000368	0.079072	3	5	COMPLETE
191	0.719983	0.534810	0.000228	0.077069	1	2	COMPLETE
192	0.744981	0.552659	0.000560	0.083076	6	7	COMPLETE
193	0.744946	0.552655	0.000390	0.077069	2	2	COMPLETE
194	0.744946	0.552655	0.000394	0.075068	2	2	COMPLETE
195	0.746576	0.553169	0.000213	0.078070	2	6	COMPLETE
196	0.745086	0.552557	0.000352	0.080072	2	3	COMPLETE
197	0.744982	0.552655	0.000297	0.081073	1	1	COMPLETE
198	0.728520	0.529675	0.000067	0.117105	1	11	COMPLETE
199	0.746606	0.553138	0.000187	0.084076	2	7	COMPLETE
200	0.719983	0.534810	0.000230	0.075068	1	2	COMPLETE
201	0.746074	0.553091	0.000180	0.092083	3	9	COMPLETE
202	0.752587	0.551374	0.000130	0.080581	1	5	COMPLETE
203	0.740991	0.546786	0.000195	0.079072	1	3	COMPLETE
204	0.745030	0.552689	0.000490	0.078069	4	5	COMPLETE
205	0.719983	0.534810	0.000232	0.077068	1	2	COMPLETE
206	0.745869	0.552784	0.000301	0.075068	2	4	COMPLETE
207	0.744982	0.552655	0.000300	0.081073	1	1	COMPLETE
208	0.747393	0.553526	0.000163	0.087078	2	8	COMPLETE
209	0.746606	0.553138	0.000188	0.083075	2	7	COMPLETE
210	0.745030	0.552689	0.000487	0.080074	4	5	COMPLETE
211	0.742905	0.538328	0.000072	0.101091	1	10	COMPLETE
212	0.747984	0.552959	0.000129	0.110099	2	11	COMPLETE
213	0.748259	0.548764	0.000158	0.074068	1	4	COMPLETE
214	0.719983	0.534810	0.000231	0.077070	1	2	COMPLETE
215	0.744946	0.552655	0.000381	0.077069	2	2	COMPLETE
216	0.745071	0.552691	0.000446	0.074067	3	4	COMPLETE
217	0.746576	0.553169	0.000216	0.078070	2	6	COMPLETE
218	0.759127	0.553536	0.000096	0.083075	1	7	COMPLETE
219	0.747984	0.552959	0.000130	0.109098	2	11	COMPLETE
220	0.740991	0.546786	0.000199	0.081073	1	3	COMPLETE
221	0.744982	0.552655	0.000296	0.081074	1	1	COMPLETE
222	0.746606	0.553138	0.000190	0.083076	2	7	COMPLETE
223	0.744998	0.552663	0.000530	0.078070	5	6	COMPLETE
224	0.747393	0.553526	0.000163	0.086078	2	8	COMPLETE
225	0.752843	0.550838	0.000114	0.078070	1	6	COMPLETE
226	0.744946	0.552655	0.000370	0.076069	2	2	COMPLETE
227	0.745071	0.552691	0.000454	0.075068	3	4	COMPLETE
228	0.744982	0.552655	0.000295	0.080072	1	1	COMPLETE
229	0.744982	0.552655	0.000301	0.082074	1	1	COMPLETE
230	0.744946	0.552655	0.000388	0.075066	2	2	COMPLETE
231	0.744977	0.552655	0.000554	0.074067	4	4	COMPLETE
232	0.719983	0.534810	0.000232	0.075067	1	2	COMPLETE
233	0.744957	0.552655	0.000508	0.079072	3	3	COMPLETE
234	0.745118	0.552728	0.000370	0.083075	4	7	COMPLETE
235	0.745086	0.552557	0.000353	0.079071	2	3	COMPLETE
236	0.759127	0.553536	0.000098	0.084076	1	7	COMPLETE
237	0.744986	0.552658	0.000519	0.103093	10	12	COMPLETE
238	0.745071	0.552691	0.000457	0.075066	3	4	COMPLETE
239	0.719983	0.534810	0.000232	0.077070	1	2	COMPLETE
240	0.745071	0.552691	0.000449	0.075069	3	4	COMPLETE
241	0.752587	0.551374	0.000131	0.081073	1	5	COMPLETE
242	0.747984	0.552959	0.000133	0.108097	2	11	COMPLETE
243	0.759127	0.553536	0.000098	0.085077	1	7	COMPLETE
244	0.752587	0.551374	0.000131	0.079071	1	5	COMPLETE

245	0.746317	0.553027	0.000249	0.080072	2	5	COMPLETE
246	0.748259	0.548764	0.000160	0.076068	1	4	COMPLETE
247	0.746606	0.553138	0.000187	0.083070	2	7	COMPLETE
248	0.742905	0.538328	0.000074	0.108097	1	10	COMPLETE
249	0.752843	0.550838	0.000114	0.079072	1	6	COMPLETE
250	0.745869	0.552784	0.000304	0.074067	2	4	COMPLETE
251	0.750489	0.552462	0.000117	0.101092	2	10	COMPLETE
252	0.745076	0.552714	0.000416	0.077069	4	6	COMPLETE
253	0.744957	0.552655	0.000517	0.079070	3	3	COMPLETE
254	0.727798	0.527254	0.000064	0.098088	1	12	COMPLETE
255	0.744998	0.552663	0.000526	0.081072	5	6	COMPLETE
256	0.742905	0.538328	0.000074	0.101091	1	10	COMPLETE
257	0.744998	0.552663	0.000528	0.078070	5	6	COMPLETE
258	0.750874	0.552263	0.000102	0.098089	2	12	COMPLETE
259	0.745192	0.552776	0.000300	0.108097	5	11	COMPLETE
260	0.746317	0.553027	0.000247	0.080072	2	5	COMPLETE
261	0.744982	0.552655	0.000670	0.098088	12	12	COMPLETE
262	0.750489	0.552462	0.000116	0.101091	2	10	COMPLETE
263	0.745382	0.552866	0.000303	0.078238	3	6	COMPLETE
264	0.746576	0.553169	0.000214	0.080073	2	6	COMPLETE
265	0.747611	0.553151	0.000157	0.105094	3	10	COMPLETE
266	0.728520	0.529675	0.000068	0.108098	1	11	COMPLETE
267	0.744977	0.552655	0.000557	0.074066	4	4	COMPLETE
268	0.748259	0.548764	0.000160	0.075067	1	4	COMPLETE
269	0.752587	0.551374	0.000135	0.080073	1	5	COMPLETE
270	0.748259	0.548764	0.000158	0.076068	1	4	COMPLETE
271	0.744983	0.552655	0.000653	0.092084	9	9	COMPLETE
272	0.751299	0.553662	0.000121	0.093084	2	9	COMPLETE
273	0.752843	0.550838	0.000112	0.079071	1	6	COMPLETE
274	0.745869	0.552784	0.000314	0.075068	2	4	COMPLETE
275	0.745382	0.552866	0.000317	0.081073	3	6	COMPLETE
276	0.744946	0.552655	0.000376	0.076067	2	2	COMPLETE
277	0.759127	0.553536	0.000098	0.088080	1	7	COMPLETE
278	0.748259	0.548764	0.000158	0.074067	1	4	COMPLETE
279	0.746074	0.553091	0.000182	0.096087	3	9	COMPLETE
280	0.748259	0.548764	0.000155	0.076068	1	4	COMPLETE
281	0.719983	0.534810	0.000233	0.076069	1	2	COMPLETE
282	0.746576	0.553169	0.000211	0.077069	2	6	COMPLETE
283	0.744975	0.552661	0.000554	0.108099	9	11	COMPLETE
284	0.752843	0.550838	0.000113	0.083073	1	6	COMPLETE
285	0.742905	0.538328	0.000074	0.105094	1	10	COMPLETE
286	0.751299	0.553662	0.000121	0.094085	2	9	COMPLETE
287	0.740991	0.546786	0.000193	0.079070	1	3	COMPLETE
288	0.759127	0.553536	0.000097	0.083075	1	7	COMPLETE
289	0.744946	0.552655	0.000395	0.075067	2	2	COMPLETE
290	0.748259	0.548764	0.000154	0.076069	1	4	COMPLETE
291	0.744982	0.552655	0.000301	0.080073	1	1	COMPLETE
292	0.744981	0.552661	0.000581	0.088079	7	8	COMPLETE
293	0.744982	0.552655	0.000671	0.097087	12	12	COMPLETE
294	0.746576	0.553169	0.000215	0.077069	2	6	COMPLETE
295	0.745086	0.552557	0.000356	0.080073	2	3	COMPLETE
296	0.747984	0.552959	0.000131	0.107097	2	11	COMPLETE
297	0.744957	0.552655	0.000510	0.079070	3	3	COMPLETE
298	0.744946	0.552655	0.000388	0.076069	2	2	COMPLETE
299	0.745377	0.552820	0.000287	0.084076	3	7	COMPLETE
300	0.745869	0.552784	0.000304	0.075068	2	4	COMPLETE

301	0.744977	0.552655	0.000555	0.075068	4	4	COMPLETE
302	0.752843	0.550838	0.000112	0.078071	1	6	COMPLETE
303	0.744977	0.552655	0.000564	0.075067	4	4	COMPLETE
304	0.747393	0.553526	0.000163	0.093083	2	8	COMPLETE
305	0.744982	0.552655	0.000643	0.078577	6	6	COMPLETE
306	0.750489	0.552462	0.000115	0.108099	2	10	COMPLETE
307	0.719983	0.534810	0.000229	0.076068	1	2	COMPLETE
308	0.748259	0.548764	0.000160	0.075068	1	4	COMPLETE
309	0.748259	0.548764	0.000158	0.075067	1	4	COMPLETE
310	0.745283	0.552799	0.000249	0.095086	4	9	COMPLETE
311	0.744977	0.552655	0.000560	0.078071	4	4	COMPLETE
312	0.761731	0.554189	0.000086	0.087079	1	8	COMPLETE
313	0.761731	0.554189	0.000086	0.097086	1	8	COMPLETE
314	0.744982	0.552655	0.000291	0.081072	1	1	COMPLETE
315	0.752843	0.550838	0.000112	0.078071	1	6	COMPLETE
316	0.761731	0.554189	0.000086	0.087078	1	8	COMPLETE
317	0.752843	0.550838	0.000113	0.078069	1	6	COMPLETE
318	0.745869	0.552784	0.000308	0.075068	2	4	COMPLETE
319	0.745869	0.552784	0.000305	0.075067	2	4	COMPLETE
320	0.742905	0.538328	0.000074	0.100091	1	10	COMPLETE
321	0.744977	0.552655	0.000558	0.075067	4	4	COMPLETE
322	0.748259	0.548764	0.000158	0.075067	1	4	COMPLETE
323	0.745000	0.552672	0.000490	0.087079	6	8	COMPLETE
324	0.752587	0.551374	0.000132	0.081074	1	5	COMPLETE
325	0.744957	0.552655	0.000505	0.080072	3	3	COMPLETE
326	0.748259	0.548764	0.000157	0.078071	1	4	COMPLETE
327	0.745160	0.552750	0.000315	0.095085	4	8	COMPLETE
328	0.752587	0.551374	0.000131	0.079071	1	5	COMPLETE
329	0.744982	0.552655	0.000296	0.080072	1	1	COMPLETE
330	0.744946	0.552655	0.000375	0.076068	2	2	COMPLETE
331	0.740991	0.546786	0.000196	0.080072	1	3	COMPLETE
332	0.744982	0.552655	0.000298	0.082074	1	1	COMPLETE
333	0.719983	0.534810	0.000234	0.075068	1	2	COMPLETE
334	0.745048	0.552696	0.000407	0.086078	5	8	COMPLETE
335	0.745071	0.552691	0.000444	0.075068	3	4	COMPLETE
336	0.746576	0.553169	0.000211	0.081074	2	6	COMPLETE
337	0.748259	0.548764	0.000160	0.079071	1	4	COMPLETE
338	0.759127	0.553536	0.000097	0.086078	1	7	COMPLETE
339	0.719983	0.534810	0.000233	0.076068	1	2	COMPLETE
340	0.744983	0.552655	0.000697	0.093084	9	9	COMPLETE
341	0.742905	0.538328	0.000074	0.100091	1	10	COMPLETE
342	0.728520	0.529675	0.000068	0.110099	1	11	COMPLETE
343	0.746775	0.553273	0.000181	0.114103	3	11	COMPLETE
344	0.748259	0.548764	0.000159	0.076065	1	4	COMPLETE
345	0.744982	0.552655	0.000645	0.078070	6	6	COMPLETE
346	0.759127	0.553536	0.000100	0.088080	1	7	COMPLETE
347	0.759127	0.553536	0.000098	0.088079	1	7	COMPLETE
348	0.742905	0.538328	0.000075	0.100091	1	10	COMPLETE
349	0.759127	0.553536	0.000097	0.086078	1	7	COMPLETE
350	0.748259	0.548764	0.000160	0.075067	1	4	COMPLETE
351	0.742905	0.538328	0.000074	0.111100	1	10	COMPLETE
352	0.728520	0.529675	0.000069	0.109098	1	11	COMPLETE
353	0.745030	0.552689	0.000489	0.082074	4	5	COMPLETE
354	0.744977	0.552655	0.000563	0.075068	4	4	COMPLETE
355	0.745869	0.552784	0.000309	0.076069	2	4	COMPLETE
356	0.752587	0.551374	0.000132	0.081073	1	5	COMPLETE

357	0.744957	0.552655	0.000593	0.080073	5	5	COMPLETE
358	0.742905	0.538328	0.000073	0.106096	1	10	COMPLETE
359	0.744992	0.552671	0.000497	0.120107	8	11	COMPLETE
360	0.728520	0.529675	0.000069	0.108103	1	11	COMPLETE
361	0.747780	0.543886	0.000079	0.093084	1	9	COMPLETE
362	0.752587	0.551374	0.000133	0.079072	1	5	COMPLETE
363	0.744982	0.552655	0.000648	0.077070	6	6	COMPLETE
364	0.744982	0.552655	0.000293	0.081073	1	1	COMPLETE
365	0.745377	0.552820	0.000284	0.089080	3	7	COMPLETE
366	0.745869	0.552784	0.000305	0.078071	2	4	COMPLETE
367	0.752843	0.550838	0.000114	0.078069	1	6	COMPLETE
368	0.744981	0.552659	0.000565	0.084076	6	7	COMPLETE
369	0.745118	0.552728	0.000372	0.088082	4	7	COMPLETE
370	0.750874	0.552263	0.000102	0.100090	2	12	COMPLETE
371	0.752843	0.550838	0.000112	0.079071	1	6	COMPLETE
372	0.745071	0.552691	0.000455	0.073066	3	4	COMPLETE
373	0.745382	0.552866	0.000309	0.081073	3	6	COMPLETE
374	0.744981	0.552664	0.000495	0.101090	8	10	COMPLETE
375	0.745270	0.552786	0.000370	0.081575	3	5	COMPLETE
376	0.746576	0.553169	0.000214	0.078071	2	6	COMPLETE
377	0.745071	0.552691	0.000457	0.080072	3	4	COMPLETE
378	0.719983	0.534810	0.000233	0.077070	1	2	COMPLETE
379	0.761731	0.554189	0.000087	0.087080	1	8	COMPLETE
380	0.746576	0.553169	0.000214	0.079071	2	6	COMPLETE
381	0.728520	0.529675	0.000068	0.119107	1	11	COMPLETE
382	0.745869	0.552784	0.000304	0.076067	2	4	COMPLETE
383	0.761731	0.554189	0.000088	0.087078	1	8	COMPLETE
384	0.761731	0.554189	0.000088	0.096086	1	8	COMPLETE
385	0.744982	0.552655	0.000298	0.081073	1	1	COMPLETE
386	0.742905	0.538328	0.000075	0.109098	1	10	COMPLETE
387	0.748259	0.548764	0.000158	0.075068	1	4	COMPLETE
388	0.761731	0.554189	0.000087	0.087078	1	8	COMPLETE
389	0.745071	0.552691	0.000457	0.075068	3	4	COMPLETE
390	0.745030	0.552689	0.000488	0.082074	4	5	COMPLETE
391	0.745086	0.552557	0.000357	0.082074	2	3	COMPLETE
392	0.745283	0.552799	0.000250	0.094085	4	9	COMPLETE
393	0.727798	0.527254	0.000063	0.100091	1	12	COMPLETE
394	0.750489	0.552462	0.000119	0.108097	2	10	COMPLETE
395	0.719983	0.534810	0.000235	0.077070	1	2	COMPLETE
396	0.746576	0.553169	0.000217	0.079071	2	6	COMPLETE
397	0.744977	0.552655	0.000563	0.075067	4	4	COMPLETE
398	0.745869	0.552784	0.000308	0.076069	2	4	COMPLETE
399	0.745076	0.552714	0.000422	0.079071	4	6	COMPLETE
400	0.744973	0.552655	0.000658	0.093083	8	8	COMPLETE
401	0.751299	0.553662	0.000119	0.094085	2	9	COMPLETE
402	0.744982	0.552655	0.000633	0.078071	6	6	COMPLETE
403	0.744957	0.552655	0.000527	0.080072	3	3	COMPLETE
404	0.761731	0.554189	0.000090	0.095085	1	8	COMPLETE
405	0.745076	0.552714	0.000421	0.080073	4	6	COMPLETE
406	0.747611	0.553151	0.000156	0.102092	3	10	COMPLETE
407	0.744982	0.552655	0.000296	0.081070	1	1	COMPLETE
408	0.746606	0.553138	0.000192	0.086078	2	7	COMPLETE
409	0.750489	0.552462	0.000119	0.106096	2	10	COMPLETE
410	0.748259	0.548764	0.000157	0.077069	1	4	COMPLETE
411	0.745203	0.552756	0.000271	0.103092	5	10	COMPLETE
412	0.759127	0.553536	0.000101	0.087078	1	7	COMPLETE



413	0.740991	0.546786	0.000201	0.080072	1	3	COMPLETE
414	0.761731	0.554189	0.000087	0.086078	1	8	COMPLETE
415	0.744977	0.552655	0.000557	0.075067	4	4	COMPLETE
416	0.744982	0.552655	0.000297	0.083075	1	1	COMPLETE
417	0.752843	0.550838	0.000113	0.078070	1	6	COMPLETE
418	0.748259	0.548764	0.000161	0.076068	1	4	COMPLETE
419	0.751299	0.553662	0.000120	0.101091	2	9	COMPLETE
420	0.745377	0.552820	0.000281	0.086077	3	7	COMPLETE
421	0.742905	0.538328	0.000073	0.113102	1	10	COMPLETE
422	0.744977	0.552655	0.000560	0.078070	4	4	COMPLETE
423	0.740991	0.546786	0.000198	0.080071	1	3	COMPLETE
424	0.761731	0.554189	0.000089	0.092083	1	8	COMPLETE
425	0.747780	0.543886	0.000085	0.100090	1	9	COMPLETE
426	0.744976	0.552655	0.000646	0.089080	7	7	COMPLETE
427	0.745073	0.552699	0.000330	0.094085	5	9	COMPLETE
428	0.745377	0.552820	0.000284	0.086078	3	7	COMPLETE
429	0.745283	0.552799	0.000255	0.099089	4	9	COMPLETE
430	0.750489	0.552462	0.000117	0.105095	2	10	COMPLETE
431	0.744998	0.552663	0.000529	0.080072	5	6	COMPLETE
432	0.746606	0.553138	0.000191	0.085086	2	7	COMPLETE
433	0.744981	0.552661	0.000582	0.087078	7	8	COMPLETE
434	0.759127	0.553536	0.000098	0.087078	1	7	COMPLETE
435	0.744983	0.552655	0.000663	0.100090	9	9	COMPLETE
436	0.752587	0.551374	0.000136	0.081073	1	5	COMPLETE
437	0.747780	0.543886	0.000084	0.104094	1	9	COMPLETE
438	0.752587	0.551374	0.000133	0.082073	1	5	COMPLETE
439	0.744982	0.552655	0.000305	0.081073	1	1	COMPLETE
440	0.745382	0.552866	0.000315	0.079071	3	6	COMPLETE
441	0.745160	0.552750	0.000324	0.091082	4	8	COMPLETE
442	0.719983	0.534810	0.000234	0.076069	1	2	COMPLETE
443	0.728520	0.529675	0.000069	0.118106	1	11	COMPLETE
444	0.747780	0.543886	0.000080	0.100090	1	9	COMPLETE
445	0.747780	0.543886	0.000079	0.101091	1	9	COMPLETE
446	0.727798	0.527254	0.000063	0.103093	1	12	COMPLETE
447	0.745010	0.552672	0.000468	0.087078	5	7	COMPLETE
448	0.747393	0.553526	0.000167	0.094085	2	8	COMPLETE
449	0.719983	0.534810	0.000232	0.075067	1	2	COMPLETE
450	0.746606	0.553138	0.000192	0.090081	2	7	COMPLETE
451	0.759127	0.553536	0.000100	0.083075	1	7	COMPLETE
452	0.745382	0.552866	0.000309	0.082074	3	6	COMPLETE
453	0.740991	0.546786	0.000199	0.080072	1	3	COMPLETE
454	0.742905	0.538328	0.000074	0.100090	1	10	COMPLETE
455	0.761731	0.554189	0.000085	0.087079	1	8	COMPLETE
456	0.727798	0.527254	0.000063	0.101091	1	12	COMPLETE
457	0.759127	0.553536	0.000099	0.084076	1	7	COMPLETE
458	0.745086	0.552557	0.000358	0.084075	2	3	COMPLETE
459	0.759127	0.553536	0.000099	0.086077	1	7	COMPLETE
460	0.752587	0.551374	0.000133	0.082073	1	5	COMPLETE
461	0.744957	0.552655	0.000513	0.081073	3	3	COMPLETE
462	0.761731	0.554189	0.000089	0.091082	1	8	COMPLETE
463	0.745118	0.552728	0.000373	0.087079	4	7	COMPLETE
464	0.742905	0.538328	0.000074	0.101091	1	10	COMPLETE
465	0.744982	0.552655	0.000297	0.081072	1	1	COMPLETE
466	0.744982	0.552655	0.000298	0.081073	1	1	COMPLETE
467	0.744966	0.552655	0.000673	0.109098	11	11	COMPLETE
468	0.745067	0.552713	0.000371	0.115103	6	11	COMPLETE

469	0.740991	0.546786	0.000203	0.081073	1	3	COMPLETE
470	0.745606	0.552962	0.000242	0.087078	3	8	COMPLETE
471	0.744981	0.552664	0.000489	0.103093	8	10	COMPLETE
472	0.747780	0.543886	0.000081	0.099089	1	9	COMPLETE
473	0.746576	0.553169	0.000216	0.079071	2	6	COMPLETE
474	0.744982	0.552655	0.000293	0.081073	1	1	COMPLETE
475	0.745203	0.552756	0.000279	0.101091	5	10	COMPLETE
476	0.759127	0.553536	0.000107	0.085076	1	7	COMPLETE
477	0.728520	0.529675	0.000074	0.110099	1	11	COMPLETE
478	0.742905	0.538328	0.000073	0.105095	1	10	COMPLETE
479	0.746576	0.553169	0.000215	0.082074	2	6	COMPLETE
480	0.744966	0.552655	0.000665	0.109098	11	11	COMPLETE
481	0.744998	0.552663	0.000536	0.081073	5	6	COMPLETE
482	0.752587	0.551374	0.000133	0.081078	1	5	COMPLETE
483	0.761731	0.554189	0.000086	0.088079	1	8	COMPLETE
484	0.742905	0.538328	0.000073	0.106096	1	10	COMPLETE
485	0.742905	0.538328	0.000074	0.105095	1	10	COMPLETE
486	0.719983	0.534810	0.000230	0.077069	1	2	COMPLETE
487	0.728520	0.529675	0.000069	0.108098	1	11	COMPLETE
488	0.759127	0.553536	0.000100	0.085077	1	7	COMPLETE
489	0.745869	0.552784	0.000308	0.077069	2	4	COMPLETE
490	0.740991	0.546786	0.000196	0.080063	1	3	COMPLETE
491	0.727798	0.527254	0.000063	0.103093	1	12	COMPLETE
492	0.744973	0.552655	0.000653	0.094085	8	8	COMPLETE
493	0.746148	0.553041	0.000170	0.100090	4	12	COMPLETE
494	0.748259	0.548764	0.000162	0.077070	1	4	COMPLETE
495	0.745869	0.552784	0.000306	0.077069	2	4	COMPLETE
496	0.745071	0.552691	0.000459	0.077069	3	4	COMPLETE
497	0.744969	0.552658	0.000614	0.106096	9	10	COMPLETE
498	0.759127	0.553536	0.000099	0.086077	1	7	COMPLETE
499	0.748259	0.548764	0.000160	0.074067	1	4	COMPLETE
500	0.745869	0.552784	0.000314	0.077070	2	4	COMPLETE
501	0.746074	0.553091	0.000183	0.093084	3	9	COMPLETE
502	0.747780	0.543886	0.000080	0.098089	1	9	COMPLETE
503	0.745270	0.552786	0.000374	0.081073	3	5	COMPLETE
504	0.744976	0.552655	0.000641	0.087079	7	7	COMPLETE
505	0.744946	0.552655	0.000397	0.077069	2	2	COMPLETE
506	0.745086	0.552557	0.000357	0.080072	2	3	COMPLETE
507	0.745382	0.552866	0.000309	0.081073	3	6	COMPLETE
508	0.752843	0.550838	0.000114	0.080072	1	6	COMPLETE
509	0.745071	0.552691	0.000459	0.076068	3	4	COMPLETE
510	0.745086	0.552557	0.000357	0.081073	2	3	COMPLETE
511	0.746317	0.553027	0.000252	0.080072	2	5	COMPLETE
512	0.742905	0.538328	0.000075	0.103093	1	10	COMPLETE
513	0.748259	0.548764	0.000157	0.078070	1	4	COMPLETE
514	0.745076	0.552714	0.000417	0.078071	4	6	COMPLETE
515	0.750489	0.552462	0.000119	0.106096	2	10	COMPLETE
516	0.745086	0.552557	0.000356	0.082074	2	3	COMPLETE
517	0.745076	0.552714	0.000422	0.083075	4	6	COMPLETE
518	0.747780	0.543886	0.000081	0.098088	1	9	COMPLETE
519	0.744983	0.552655	0.000661	0.093083	9	9	COMPLETE
520	0.744986	0.552658	0.000524	0.100090	10	12	COMPLETE
521	0.747780	0.543886	0.000080	0.099089	1	9	COMPLETE
522	0.727798	0.527254	0.000062	0.102092	1	12	COMPLETE
523	0.747611	0.553151	0.000156	0.104094	3	10	COMPLETE
524	0.744957	0.552655	0.000508	0.080071	3	3	COMPLETE

525	0.728520	0.529675	0.000068	0.113102	1	11	COMPLETE
526	0.746576	0.553169	0.000216	0.081072	2	6	COMPLETE
527	0.745869	0.552784	0.000311	0.078070	2	4	COMPLETE
528	0.744994	0.552662	0.000443	0.100090	9	12	COMPLETE
529	0.719983	0.534810	0.000230	0.078070	1	2	COMPLETE
530	0.744982	0.552655	0.000298	0.081073	1	1	COMPLETE
531	0.752587	0.551374	0.000132	0.080072	1	5	COMPLETE
532	0.748259	0.548764	0.000171	0.076069	1	4	COMPLETE
533	0.744965	0.552655	0.000728	0.101091	10	10	COMPLETE
534	0.744975	0.552661	0.000576	0.111100	9	11	COMPLETE
535	0.752843	0.550838	0.000116	0.079071	1	6	COMPLETE
536	0.728520	0.529675	0.000068	0.123111	1	11	COMPLETE
537	0.728520	0.529675	0.000068	0.109098	1	11	COMPLETE
538	0.744982	0.552655	0.000305	0.081072	1	1	COMPLETE
539	0.728520	0.529675	0.000069	0.108098	1	11	COMPLETE
540	0.719983	0.534810	0.000243	0.077069	1	2	COMPLETE
541	0.747393	0.553526	0.000164	0.089080	2	8	COMPLETE
542	0.752843	0.550838	0.000115	0.081073	1	6	COMPLETE
543	0.742905	0.538328	0.000075	0.100091	1	10	COMPLETE
544	0.740991	0.546786	0.000205	0.079071	1	3	COMPLETE
545	0.747780	0.543886	0.000078	0.094086	1	9	COMPLETE
546	0.744977	0.552655	0.000571	0.076069	4	4	COMPLETE
547	0.745203	0.552756	0.000265	0.102093	5	10	COMPLETE
548	0.744946	0.552655	0.000386	0.077069	2	2	COMPLETE
549	0.742905	0.538328	0.000074	0.108097	1	10	COMPLETE
550	0.744982	0.552655	0.000299	0.081073	1	1	COMPLETE
551	0.747780	0.543886	0.000083	0.092082	1	9	COMPLETE
552	0.746576	0.553169	0.000214	0.078071	2	6	COMPLETE
553	0.744982	0.552655	0.000636	0.078070	6	6	COMPLETE
554	0.747780	0.543886	0.000079	0.094085	1	9	COMPLETE
555	0.719983	0.534810	0.000231	0.077070	1	2	COMPLETE
556	0.744973	0.552655	0.000652	0.086077	8	8	COMPLETE
557	0.746576	0.553169	0.000218	0.078071	2	6	COMPLETE
558	0.747780	0.543886	0.000080	0.095085	1	9	COMPLETE
559	0.744982	0.552655	0.000300	0.080072	1	1	COMPLETE
560	0.744983	0.552655	0.000665	0.093083	9	9	COMPLETE
561	0.748259	0.548764	0.000156	0.077070	1	4	COMPLETE
562	0.744977	0.552655	0.000551	0.076069	4	4	COMPLETE
563	0.728520	0.529675	0.000067	0.108099	1	11	COMPLETE
564	0.744992	0.552671	0.000490	0.107096	8	11	COMPLETE
565	0.745067	0.552713	0.000369	0.109098	6	11	COMPLETE
566	0.745869	0.552784	0.000305	0.075067	2	4	COMPLETE
567	0.745869	0.552784	0.000306	0.077069	2	4	COMPLETE
568	0.727798	0.527254	0.000064	0.098089	1	12	COMPLETE
569	0.728520	0.529675	0.000068	0.108098	1	11	COMPLETE
570	0.745869	0.552784	0.000305	0.078069	2	4	COMPLETE
571	0.744946	0.552655	0.000371	0.076068	2	2	COMPLETE
572	0.745002	0.552675	0.000393	0.103093	7	10	COMPLETE
573	0.748259	0.548764	0.000162	0.079072	1	4	COMPLETE
574	0.745071	0.552691	0.000446	0.076068	3	4	COMPLETE
575	0.744975	0.552661	0.000554	0.108098	9	11	COMPLETE
576	0.761731	0.554189	0.000086	0.086084	1	8	COMPLETE
577	0.745048	0.552696	0.000404	0.087079	5	8	COMPLETE
578	0.745067	0.552713	0.000373	0.109098	6	11	COMPLETE
579	0.747393	0.553526	0.000164	0.095086	2	8	COMPLETE
580	0.746606	0.553138	0.000191	0.084075	2	7	COMPLETE

581	0.759127	0.553536	0.000097	0.084076	1	7	COMPLETE
582	0.744992	0.552671	0.000489	0.110098	8	11	COMPLETE
583	0.745071	0.552691	0.000446	0.075067	3	4	COMPLETE
584	0.727798	0.527254	0.000063	0.097087	1	12	COMPLETE
585	0.727798	0.527254	0.000063	0.101091	1	12	COMPLETE
586	0.748259	0.548764	0.000158	0.076069	1	4	COMPLETE
587	0.745270	0.552786	0.000366	0.080072	3	5	COMPLETE
588	0.748259	0.548764	0.000158	0.074066	1	4	COMPLETE
589	0.728520	0.529675	0.000068	0.109099	1	11	COMPLETE
590	0.745008	0.552669	0.000379	0.098088	8	12	COMPLETE
591	0.744986	0.552658	0.000580	0.093084	8	9	COMPLETE
592	0.744982	0.552655	0.000301	0.081073	1	1	COMPLETE
593	0.748535	0.553473	0.000131	0.099089	3	12	COMPLETE
594	0.744982	0.552655	0.000297	0.081079	1	1	COMPLETE
595	0.747780	0.543886	0.000079	0.094085	1	9	COMPLETE
596	0.761731	0.554189	0.000086	0.086077	1	8	COMPLETE
597	0.744982	0.552655	0.000643	0.078070	6	6	COMPLETE
598	0.745160	0.552750	0.000318	0.086077	4	8	COMPLETE
599	0.748259	0.548764	0.000159	0.075067	1	4	COMPLETE
600	0.748259	0.548764	0.000156	0.075068	1	4	COMPLETE
601	0.747780	0.543886	0.000081	0.094084	1	9	COMPLETE
602	0.748259	0.548764	0.000158	0.075068	1	4	COMPLETE
603	0.744981	0.552661	0.000577	0.087070	7	8	COMPLETE
604	0.759127	0.553536	0.000096	0.086078	1	7	COMPLETE
605	0.752587	0.551374	0.000134	0.079071	1	5	COMPLETE
606	0.719983	0.534810	0.000232	0.076068	1	2	COMPLETE
607	0.761731	0.554189	0.000085	0.085076	1	8	COMPLETE
608	0.748259	0.548764	0.000158	0.076069	1	4	COMPLETE
609	0.728520	0.529675	0.000068	0.107096	1	11	COMPLETE
610	0.744976	0.552655	0.000633	0.083076	7	7	COMPLETE
611	0.727798	0.527254	0.000063	0.099090	1	12	COMPLETE
612	0.746606	0.553138	0.000188	0.084076	2	7	COMPLETE
613	0.747780	0.543886	0.000079	0.095085	1	9	COMPLETE
614	0.727798	0.527254	0.000063	0.096262	1	12	COMPLETE
615	0.744957	0.552655	0.000577	0.079071	5	5	COMPLETE
616	0.744973	0.552655	0.000650	0.086077	8	8	COMPLETE
617	0.745553	0.552929	0.000229	0.108097	4	11	COMPLETE
618	0.728520	0.529675	0.000069	0.107097	1	11	COMPLETE
619	0.728520	0.529675	0.000068	0.109098	1	11	COMPLETE
620	0.747984	0.552959	0.000128	0.110099	2	11	COMPLETE
621	0.745071	0.552691	0.000447	0.076067	3	4	COMPLETE
622	0.728520	0.529675	0.000076	0.110100	1	11	COMPLETE
623	0.728520	0.529675	0.000068	0.115104	1	11	COMPLETE
624	0.745008	0.552669	0.000380	0.099090	8	12	COMPLETE

# 3

## Hyper parameter optimization for LSH

### 3.1. Hyper parameter optimization for 270 keyframes

number	values_0	values_1	values_2	values_3	params_bitlength_percentage	state
0	0.726637	0.534693	0.000027	0.141128	0.98	COMPLETE
1	0.728313	0.534956	0.000023	0.111101	0.86	COMPLETE
2	0.725556	0.533963	0.000018	0.098608	0.71	COMPLETE
3	0.722704	0.532270	0.000015	0.073066	0.59	COMPLETE
4	0.728861	0.534378	0.000011	0.048043	0.36	COMPLETE
5	0.726364	0.533189	0.000022	0.106096	0.81	COMPLETE
6	0.729140	0.534767	0.000023	0.109098	0.85	COMPLETE
7	0.726069	0.532352	0.000024	0.118108	0.88	COMPLETE
8	0.723335	0.532396	0.000014	0.053048	0.45	COMPLETE
9	0.727213	0.533644	0.000025	0.123114	0.91	COMPLETE
10	0.728270	0.534156	0.000024	0.125860	0.92	COMPLETE
11	0.727237	0.533815	0.000019	0.080072	0.66	COMPLETE
12	0.676598	0.509063	0.000002	0.002001	0.04	COMPLETE
13	0.725925	0.533800	0.000023	0.119108	0.87	COMPLETE
14	0.709164	0.523193	0.000004	0.009010	0.11	COMPLETE
15	0.731619	0.535522	0.000020	0.096087	0.72	COMPLETE
16	0.725715	0.532878	0.000016	0.069062	0.55	COMPLETE
17	0.718244	0.530396	0.000008	0.026023	0.22	COMPLETE
18	0.721221	0.530126	0.000007	0.018016	0.19	COMPLETE
19	0.716508	0.528356	0.000005	0.011009	0.12	COMPLETE
20	0.727419	0.534348	0.000008	0.026023	0.26	COMPLETE
21	0.721221	0.530126	0.000007	0.019016	0.19	COMPLETE
22	0.649887	0.493937	0.000002	0.002001	0.03	COMPLETE
23	0.725429	0.532904	0.000013	0.059053	0.51	COMPLETE
24	0.722810	0.531926	0.000015	0.074073	0.56	COMPLETE

### 3.2. Hyper parameter optimization for 8100 keyframes

number	values_0	values_1	values_2	values_3	params_bitlength_percentage	state
0	0.713393	0.529418	0.000034	0.120108	0.35	COMPLETE
1	0.714982	0.530000	0.000042	0.131629	0.42	COMPLETE
2	0.715800	0.530379	0.000035	0.108099	0.33	COMPLETE
3	0.717542	0.531994	0.000054	0.252228	0.80	COMPLETE
4	0.716442	0.530677	0.000045	0.161147	0.49	COMPLETE

5	0.716528	0.531661	0.000055	0.262890	0.82	COMPLETE
6	0.714977	0.530075	0.000042	0.175159	0.56	COMPLETE
7	0.705225	0.525178	0.000027	0.051046	0.16	COMPLETE
8	0.598340	0.470312	0.000019	0.009008	0.02	COMPLETE
9	0.715138	0.529707	0.000050	0.203001	0.62	COMPLETE
10	0.717741	0.531334	0.000060	0.327297	0.95	COMPLETE
11	0.719113	0.531856	0.000058	0.300498	0.90	COMPLETE
12	0.716075	0.530708	0.000053	0.291265	0.93	COMPLETE
13	0.716998	0.531695	0.000039	0.124112	0.36	COMPLETE
14	0.717810	0.532034	0.000060	0.320290	0.97	COMPLETE
15	0.720416	0.533889	0.000037	0.152136	0.50	COMPLETE
16	0.711619	0.528733	0.000035	0.103093	0.31	COMPLETE
17	0.686291	0.515423	0.000025	0.036033	0.10	COMPLETE
18	0.718852	0.532757	0.000033	0.105094	0.32	COMPLETE
19	0.716619	0.530887	0.000050	0.223119	0.65	COMPLETE
20	0.716732	0.530695	0.000054	0.266365	0.81	COMPLETE
21	0.719558	0.532414	0.000050	0.228538	0.72	COMPLETE
22	0.711619	0.528733	0.000035	0.104094	0.31	COMPLETE
23	0.686291	0.515423	0.000025	0.034030	0.10	COMPLETE
24	0.689293	0.517708	0.000022	0.028025	0.09	COMPLETE

### 3.3. Hyper parameter optimization for 50000 keyframes

number	values_0	values_1	values_2	values_3	params_bitlength_percentage	state
0	0.719363	0.532085	0.000127	0.313284	0.25	COMPLETE
1	0.720434	0.532791	0.000215	1.009548	0.74	COMPLETE
2	0.716738	0.531866	0.000155	0.423385	0.30	COMPLETE
3	0.689294	0.516477	0.000119	0.186168	0.10	COMPLETE
4	0.720227	0.532562	0.000194	0.727262	0.55	COMPLETE
5	0.710247	0.527531	0.000139	0.230541	0.18	COMPLETE
6	0.717701	0.531249	0.000168	0.559986	0.42	COMPLETE
7	0.691888	0.518794	0.000130	0.134121	0.09	COMPLETE
8	0.715711	0.530624	0.000139	0.413375	0.28	COMPLETE
9	0.716738	0.531866	0.000155	0.431391	0.30	COMPLETE
10	0.713355	0.530102	0.000132	0.343311	0.22	COMPLETE
11	0.719182	0.532014	0.000253	1.031900	0.93	COMPLETE
12	0.720227	0.532562	0.000189	0.731658	0.55	COMPLETE
13	0.720741	0.532942	0.000233	1.231971	0.91	COMPLETE
14	0.713355	0.530102	0.000136	0.324295	0.22	COMPLETE
15	0.720294	0.532795	0.000221	1.081988	0.79	COMPLETE
16	0.719048	0.532061	0.000187	0.687958	0.49	COMPLETE
17	0.719397	0.532611	0.000207	0.949601	0.70	COMPLETE
18	0.715262	0.530276	0.000140	0.446415	0.31	COMPLETE
19	0.718238	0.531870	0.000197	0.808052	0.58	COMPLETE
20	0.718160	0.532997	0.000149	0.339501	0.27	COMPLETE
21	0.718123	0.532010	0.000205	0.945860	0.69	COMPLETE
22	0.716267	0.530871	0.000160	0.475935	0.35	COMPLETE
23	0.719451	0.532261	0.000212	0.879773	0.65	COMPLETE
24	0.719048	0.532061	0.000186	0.657608	0.49	COMPLETE