

Monolithic Results

Instance Name	A*(GNN)			BFS			P5		
	Length.	Nodes	Time[ms]	Length.	Nodes	Time[ms]	Length.	Nodes	Time[ms]
Assemble.B10-pl.5	–	–	TO	–	–	TO	–	–	TO
Assemble.B2-pl.5	5	14	264	5	14	269	5	14	269
Assemble.B3-pl.5	5	14	164	5	14	378	5	14	378
Assemble.B4-pl.5	5	14	275	5	14	376	5	14	376
Assemble.B5-pl.5	5	14	223	5	14	323	5	14	323
Assemble.B6-pl.5	5	14	804	5	14	1025	5	14	1025
Assemble.B7-pl.5	5	14	4368	5	14	8500	5	14	8500
Assemble.B8-pl.5	5	14	24655	5	14	35914	5	14	35914
Assemble.B9-pl.5	5	14	295842	5	14	465844	5	14	465844
Assemble.C-pl.5	5	14	124	5	14	174	5	14	174
CC_2.2.3-pl.3	3	9	111	4	7	103	4	7	103
CC_2.2.3-pl.4	4	13	183	6	12	116	6	12	116
CC_2.2.3-pl.5	5	17	272	5	14	156	5	14	156
CC_2.2.3-pl.6	6	62	424	7	17	228	7	17	228
CC_2.2.3-pl.7	7	163	2390	11	2150	6290	11	2150	6290
CC_2.2.3-pl.8	8	1327	18235	–	–	TO	–	–	TO
CC_2.2.4-pl.3	3	3	217	3	3	202	3	3	202
CC_2.2.4-pl.4	6	7	324	6	6	390	6	6	390
CC_2.2.4-pl.5	7	43	938	14	43	847	14	43	847
CC_2.2.4-pl.6	6	21	1251	55	1062	10165	55	1062	10165
CC_2.2.4-pl.7	8	129	3989	–	–	TO	–	–	TO
CC_2.3.4-pl.3	5	6	2517	7	9	4534	7	9	4534
CC_2.3.4-pl.4	5	5	1995	5	5	1126	5	5	1126
CC_2.3.4-pl.5	10	132	20181	–	–	TO	–	–	TO
CC_2.3.4-pl.6	11	1269	65775	–	–	TO	–	–	TO
CC_2.3.4-pl.7	11	2054	88913	–	–	TO	–	–	TO
CC_3.2.3-pl.3	3	4	228	3	3	236	3	3	236
CC_3.2.3-pl.4	5	13	219	8	12	406	8	12	406
CC_3.2.3-pl.5	6	51	888	21	3442	92075	21	3442	92075
CC_3.2.3-pl.6	6	74	1201	19	311	12446	19	311	12446
CC_3.2.3-pl.7	8	185	3058	–	–	TO	–	–	TO
CC_3.3.3-pl.3	3	3	218	3	3	212	3	3	212
CC_3.3.3-pl.4	6	19	1730	7	8	788	7	8	788

CC_3.3_3-pl.5	6	26	1975	8	12	2513	8	12	2513
CC_3.3_3-pl.6	8	226	13395	10	18	1864	10	18	1864
CC_3.3_3-pl.7	8	1476	59481	–	–	TO	–	–	TO
Coin_in_the_Box-pl.2	2	2	52	2	2	71	2	2	71
Coin_in_the_Box-pl.3	3	17	220	4	12	160	4	12	160
Coin_in_the_Box-pl.5	5	77	425	5	16	156	5	16	156
Coin_in_the_Box-pl.6	6	381	3534	–	–	TO	–	–	TO
Coin_in_the_Box-pl.7	7	1817	10395	–	–	TO	–	–	TO
SC_4.1-pl.3	3	4	51	3	4	57	3	4	57
SC_4.1-pl.5	5	17	125	–	–	TO	–	–	TO
SC_4.2-pl.5	5	15	132	–	–	TO	–	–	TO
SC_4.2-pl.7	7	120	609	–	–	TO	–	–	TO
SC_4.2-pl.8	8	339	1639	–	–	TO	–	–	TO
SC_4.3-pl.5	5	17	116	–	–	TO	–	–	TO
SC_4.3-pl.6	6	21	162	–	–	TO	–	–	TO
SC_4.3-pl.8	8	59	186	–	–	TO	–	–	TO
SC_4.4-pl.5	5	17	125	–	–	TO	–	–	TO
SC_8.10-pl.6	6	49	315	483	4776	50264	483	4776	50264
SC_8.10-pl.8	8	542	5157	1586	19087	329262	1586	19087	329262
SC_8.10-pl.9	9	1660	17268	1586	19087	321429	1586	19087	321429
SC_8.10-pl.12	12	31662	199243	–	–	TO	–	–	TO
SC_9.11-pl.4	4	8	143	6	13	192	6	13	192
SC_9.11-pl.5	5	11	152	8	21	315	8	21	315
SC_9.11-pl.6	6	26	179	–	–	TO	–	–	TO
SC_9.11-pl.7	7	41	431	–	–	TO	–	–	TO
SC_9.11-pl.8	8	66	388	–	–	TO	–	–	TO
SC_9.11-pl.9	9	238	1895	–	–	TO	–	–	TO
SC_9.11-pl.10	10	663	6151	–	–	TO	–	–	TO
SC_9.11-pl.11	11	1262	15073	–	–	TO	–	–	TO
SC_10.8-pl.9	–	–	TO	–	–	TO	–	–	TO
SC_10.8-pl.10	10	10	174	10	10	153	10	10	153
SC_10.8-pl.14	14	93	481	16	33	390	16	33	390
SC_10.8-pl.15	15	130	824	–	–	TO	–	–	TO
SC_10.10-pl.2	2	6	280	4	13	386	4	13	386
SC_10.10-pl.3	3	10	239	–	–	TO	–	–	TO
SC_10.10-pl.6	6	309	8676	–	–	TO	–	–	TO
SC_10.10-pl.7	7	647	17999	–	–	TO	–	–	TO

SC_10_10-pl_9	9	10	188	9	10	114	9	10	114
SC_10_10-pl_9	9	886	20614	13	65	1442	13	65	1442
SC_10_10-pl_10	10	15	191	11	17	220	11	17	220
SC_10_10-pl_10	10	3096	80030	–	–	TO	–	–	TO
SC_10_10-pl_13	13	15826	285398	–	–	TO	–	–	TO
SC_10_10-pl_13	13	51	431	17	49	406	17	49	406
SC_10_10-pl_14	–	–	TO	–	–	TO	–	–	TO
SC_10_10-pl_17	17	946	7240	–	–	TO	–	–	TO
SC_10_10-pl_17	–	–	TO	–	–	TO	–	–	TO
avg± std (all)	7 ± 3	915 ± 4034	17383 ± 53089	91 ± 334	1147 ± 4021	30739 ± 95330	91 ± 334	1147 ± 4021	30739 ± 95330
iqm± iqr (all)	6 ± 3	54 ± 218	1255 ± 5436	7 ± 6	14 ± 14	652 ± 2819	7 ± 6	14 ± 14	652 ± 2819
avg± std (comm)	6 ± 3	98 ± 283	9167 ± 44059	91 ± 334	1147 ± 4021	30739 ± 95330	91 ± 334	1147 ± 4021	30739 ± 95330
iqm± iqr (comm)	5 ± 1	18 ± 40	529 ± 1581	7 ± 6	14 ± 14	652 ± 2819	7 ± 6	14 ± 14	652 ± 2819
Solved Instances		75/79 (94.94%)			44/79 (55.70%)			44/79 (55.70%)	

Table 1: Comparison of execution on the domain over the **Train** and **Test** instances.