

Monolithic Results

Instance Name	A*(GNN)			BFS		
	Length.	Nodes	Time[ms]	Length.	Nodes	Time[ms]
Assemble.B10-pl.5	–	–	TO	–	–	TO
Assemble.B2-pl.5	5	14	264	5	14	269
Assemble.B4-pl.5	5	14	275	5	14	376
Assemble.B6-pl.5	5	14	804	5	14	1025
Assemble.B8-pl.5	5	14	24655	5	14	35914
Assemble.B9-pl.5	5	14	295842	5	14	465844
Assemble.C-pl.5	5	14	124	5	14	174
CC.2.2.3-pl.3	3	9	111	4	7	103
CC.2.2.3-pl.5	5	17	272	5	14	156
CC.2.2.3-pl.7	7	163	2390	11	2150	6290
CC.2.2.3-pl.8	8	1327	18235	–	–	TO
CC.2.2.4-pl.3	3	3	217	3	3	202
CC.2.2.4-pl.4	6	7	324	6	6	390
CC.2.2.4-pl.6	6	21	1251	55	1062	10165
CC.2.2.4-pl.7	8	129	3989	–	–	TO
CC.2.3.4-pl.4	5	5	1995	5	5	1126
CC.2.3.4-pl.5	10	132	20181	–	–	TO
CC.2.3.4-pl.6	11	1269	65775	–	–	TO
CC.3.2.3-pl.3	3	4	228	3	3	236
CC.3.2.3-pl.6	6	74	1201	19	311	12446
CC.3.2.3-pl.7	8	185	3058	–	–	TO
CC.3.3.3-pl.3	3	3	218	3	3	212
CC.3.3.3-pl.5	6	26	1975	8	12	2513
CC.3.3.3-pl.6	8	226	13395	10	18	1864
CC.3.3.3-pl.7	8	1476	59481	–	–	TO
Coin.in.the.Box-pl.2	2	2	52	2	2	71
Coin.in.the.Box-pl.5	5	77	425	5	16	156
Coin.in.the.Box-pl.7	7	1817	10395	–	–	TO
SC.4.1-pl.5	5	17	125	–	–	TO
SC.4.2-pl.5	5	15	132	–	–	TO
SC.4.2-pl.8	8	339	1639	–	–	TO
SC.4.3-pl.6	6	21	162	–	–	TO
SC.4.3-pl.8	8	59	186	–	–	TO

SC_4.4-pl.5	5	17	125	–	–	TO
SC_8.10-pl.8	8	542	5157	1586	19087	329262
SC_8.10-pl.9	9	1660	17268	1586	19087	321429
SC_8.10-pl.12	12	31662	199243	–	–	TO
SC_9.11-pl.4	4	8	143	6	13	192
SC_9.11-pl.5	5	11	152	8	21	315
SC_9.11-pl.7	7	41	431	–	–	TO
SC_9.11-pl.9	9	238	1895	–	–	TO
SC_9.11-pl.10	10	663	6151	–	–	TO
SC_9.11-pl.11	11	1262	15073	–	–	TO
SC_10.8-pl.9	–	–	TO	–	–	TO
SC_10.8-pl.14	14	93	481	16	33	390
SC_10.10-pl.2	2	6	280	4	13	386
SC_10.10-pl.3	3	10	239	–	–	TO
SC_10.10-pl.9	9	10	188	9	10	114
SC_10.10-pl.9	9	886	20614	13	65	1442
SC_10.10-pl.10	10	15	191	11	17	220
SC_10.10-pl.13	13	15826	285398	–	–	TO
SC_10.10-pl.14	–	–	TO	–	–	TO
SC_10.10-pl.17	17	946	7240	–	–	TO
SC_10.10-pl.17	–	–	TO	–	–	TO
avg± std (all)	7 ± 3	1228 ± 4886	21793 ± 62537	118 ± 400	1450 ± 4819	41148 ± 114657
iqm± iqr (all)	6 ± 4	66 ± 300	1758 ± 9389	7 ± 6	15 ± 11	731 ± 2311
avg± std (comm)	6 ± 3	136 ± 342	13465 ± 53762	118 ± 400	1450 ± 4819	41148 ± 114657
iqm± iqr (comm)	5 ± 2	18 ± 66	681 ± 1778	7 ± 6	15 ± 11	731 ± 2311
Solved Instances	50/54 (92.59%)			29/54 (53.70%)		

Table 1: Comparison of execution on the domain over the **Test** instances. The model used by A*(GNN) has been trained using the instances reported in the previous **Train** Table.