

Problem 1

Search Algorithm	New Nodes	Expansions	Goal Tests	Time Elapsed	Plan Length
Breadth First	180	43	56	0.037145706825	6
Breadth First Tree	5960	1458	1459	1.015700467862	6
Depth First Graph	48	12	13	0.007323919795	12
Depth Limited Search	414	101	271	0.077881430276	50
Uniform Cost	224	55	57	0.032873608172	6
Recursive Best First	17029	4229	4230	2.613217785023	6
Greedy Best First Graph	28	7	9	0.005002802238	6
A Star	224	55	57	0.035432716832	6
A Star Ignore Preconditions	170	41	43	0.038264886476	6
A Star Planning Graph Level Sum	50	11	13	4.130283502862	6

Problem 2

Search Algorithm	New Nodes	Expansions	Goal Tests	Time Elapsed	Plan Length
Breadth First	30509	3343	4609	8.077382829972	9
Breadth First Tree	N/A	N/A	N/A	N/A	N/A
Depth First Graph	5211	582	583	3.302069066092	575
Depth Limited Search	2054119	222719	2053741	989.437869959511	50
Uniform Cost	43381	4780	4782	12.466046800837	9
Recursive Best First	N/A	N/A	N/A	N/A	N/A
Greedy Best First Graph	5382	598	600	1.5341111144952	21
A Star	43381	4780	4782	12.231280655600	9
A Star Ignore Preconditions	13303	1450	1452	4.305903484114	9
A Star Planning Graph Level Sum	841	86	88	487.203487392515	9

Problem 3

Search Algorithm	New Nodes	Expansions	Goal Tests	Time Elapsed	Plan Length
Breadth First	129631	14663	18098	45.471069600433	12
Breadth First Tree	N/A	N/A	N/A	N/A	N/A
Depth First Graph	5176	627	628	3.238938299008	596
Depth Limited Search	N/A	N/A	N/A	N/A	N/A
Uniform Cost	156769	17882	17884	54.557302473113	12
Recursive Best First	N/A	N/A	N/A	N/A	N/A
Greedy Best First Graph	39970	4498	4500	12.576589633711	26
A Star	156769	17882	17884	53.434710237198	12
A Star Ignore Preconditions	44886	5034	5036	16.510180269368	12
A Star Planning Graph Level Sum	2894	314	316	2601.619759829710	12