Which \square algorithm \square or \square algorithms \square would \square be \square most \square appropriate \square for \square planning \square in \square a restricted \square domain \square (i.e., \square one \square that \square as \square only \square a \square few \square actions) \square and \square needs \square to \square operatoreal time?
greedy_best_first_graph_search h_unmet_goals
Which algorithm or algorithms would be most appropriate for planning in very large domains (e.g., planning delivery routes for all UPS drivers in the U.S. on a

greedy_best_first_graph_search h_unmet_goals

given day)

Which algorithm or algorithms would be most appropriate for planning problems where it is important to find only optimal plans?

For restricted domains, I would not use depth_first_graph_search. The other algorithms all seem to have different strengths so I would choose one based on what metric was important to me.

For large domains, I would use astar_search h_unmet_goals.



breadth_first_search depth_first_graph_search uniform_cost_search
greedy_best_first_graph_search h_unmet_goa
greedy_best_first_graph_search h_pg_levelsu
greedy_best_first_graph_search h_pg_maxlev
greedy_best_first_graph_search h_pg_setleve
astar_search h_unmet_goals
astar_search h_pg_levelsum
astar_search h_pg_maxlevel
astar_search h_pg_setlevel

			Air Cargo	۱ Air Cargo Problem		
	# Actions	Expansions	pansions Goal Tests	New Nodes	Time	Plan length
	20	43	56	178	178 0.004425517	6
	20	21	22	84	84 0.002810969	20
	20	60	62	240	240 0.009206513	6
oals	20	7	9	29	29 0.001263654	6
m	20	6	00	28	28 0.251574422	6
evel	20	6	00	24	24 0.188282471	6
<u>'el</u>	20	6	00	28	28 0.324637618	6
	20	50	52	206	206 0.007290587	6
	20	28	30	122	122 0.598175485	6
	20	43	45	180	180 0.661728302	6
	20	33	35	138	138 0.718829199	0

greedy_best_first_graph_search h_pg_setlevel astar_search h_unmet_goals astar_search h_pg_levelsum astar_search h_pg_maxlevel astar_search h_pg_setlevel	breadth_first_search depth_first_graph_search uniform_cost_search greedy_best_first_graph_search h_unmet_goals greedy_best_first_graph_search h_pg_levelsum greedy_best_first_graph_search h_pg_maxlevel
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	# Actions	Air Cargo Expansions Goal Tests	Air Cargo Goal Tests	Air Cargo Problem 2 Goal Tests New Nodes Time	Plan length
	72	3343	4609	30503 1.396721271	9
	72	624	625	5602 2.194277348	619
	72	5154	5156	46618 2.723929278	9
S	72	17	19	170 0.013032127	9
3	72	9	11	86 6.003312876	9
<u>w</u>	72	27	29	249 11.24422633	9
	72	9	11	84 7.538850466	9
	72	2467	2469	22522 1.754493083	9
	72	357	359	3426 140.3935985	9
	72	2887	2889	26594 767.1742883	9
	72	1037	1039	9605 683.1555048	9

breadth_first_search
depth_first_graph_search
uniform_cost_search
greedy_best_first_graph_search h_unmet
greedy_best_first_graph_search h_pg_lev
greedy_best_first_graph_search h_pg_ma
greedy_best_first_graph_search h_pg_se
astar_search h_unmet_goals
astar_search h_pg_levelsum
astar_search h_pg_maxlevel
astar_search h_pg_setlevel

	# Actions	# Actions Expansions Goal Tests New Nodes	Goal Tests	New Nodes	Time
	88	14663	18098	129625 8.5	129625 8.531778877
	88	408	409	3364 0.7	3364 0.728504438
	88	18510	18512	161936 10.51343857	.51343857
search h_unmet_goals	88	25	27	230 0.	230 0.027147726
search h_pg_levelsum	88	14	16	126 11	126 11.68567141
search h_pg_maxlevel	88	21	23	195 15	195 15.97737023
search h_pg_setlevel	88	35	37	345 39	345 39.79208618
als	88	7388	7390	65711 5.6	65711 5.658423956
m	88	369	371	3403 23	3403 230.0419798
vel	88	3423	3425	31596 37	31596 3709.065042
<u>o</u>	88	9580	9582	86312 39	86312 3988.972573

12 12 12 13 14 15 12

astar_search h_unmet_goals astar_search h_pg_levelsum astar_search h_pg_maxlevel astar_search h_pg_setlevel	<pre>greedy_best_first_graph_search h_pg_maxlevel greedy_best_first_graph_search h_pg_setlevel</pre>	<pre>greedy_best_first_graph_search h_unmet_goals greedy_best_first_graph_search h_pg_levelsum</pre>	uniform_cost_search	breadth_first_search
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1208	104
34330	104
107	104
56	104
17	104
29	104
113339	104
25174	104
99736	104
	4 99736 114953 944130 4 25174 25175 228849