

1)

=====

Breadth First Search

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<id=0	parent=None	g(n)= 0	h(n)=8 f(n)=8 Priority=None>
<id=1	parent=0	g(n)= 1	h(n)=9 f(n)=10 Priority=None>
<id=88	parent=0	g(n)= 1	h(n)=9 f(n)=10 Priority=None>
<id=48	parent=0	g(n)= 1	h(n)=7 f(n)=8 Priority=None>
<id=106	parent=1	g(n)= 2	h(n)=10f(n)=12 Priority=None>
<id=145	parent=1	g(n)= 2	h(n)=10f(n)=12 Priority=None>
<id=8843	parent=88	g(n)= 2	h(n)=10f(n)=12 Priority=None>
<id=4864	parent=48	g(n)= 2	h(n)=8 f(n)=10 Priority=None>
<id=4865	parent=48	g(n)= 2	h(n)=8 f(n)=10 Priority=None>
<id=4895	parent=48	g(n)= 2	h(n)=6 f(n)=8 Priority=None>
<id=10681	parent=106	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=10660	parent=106	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=10696	parent=106	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=14599	parent=145	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=14596	parent=145	g(n)= 3	h(n)=10f(n)=13 Priority=None>
<id=14563	parent=145	g(n)= 4	h(n)=10f(n)=14 Priority=None>
<id=14548	parent=145	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=884398	parent=8843	g(n)= 3	h(n)=10f(n)=13 Priority=None>

<id=884362	parent=8843	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=884324	parent=8843	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=486487	parent=4864	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=486406	parent=4864	g(n)= 3	h(n)=7 f(n)=10 Priority=None>
<id=486408	parent=4864	g(n)= 4	h(n)=8 f(n)=12 Priority=None>
<id=486481	parent=4864	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=486535	parent=4865	g(n)= 3	h(n)=7 f(n)=10 Priority=None>
<id=486546	parent=4865	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=486557	parent=4865	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=489524	parent=4895	g(n)= 4	h(n)=6 f(n)=10 Priority=None>
<id=489528	parent=4895	g(n)= 3	h(n)=7 f(n)=10 Priority=None>

Maximum number of iterations reached

Breadth-First Stats:

Iterations: 30

of Nodes Added to Open List: 91

of Nodes Added to Closed List: 29

Total Cost: 0

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A* Search with h1

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<id=0	parent=None	g(n)= 0	h(n)=8 f(n)=8 Priority=0>
<id=46	parent=0	g(n)= 1	h(n)=7 f(n)=8 Priority=1>
<id=4649	parent=46	g(n)= 2	h(n)=6 f(n)=8 Priority=2>

<id=464975	parent=4649	g(n)= 4	h(n)=5 f(n)=9 Priority=4>
<id=75	parent=0	g(n)= 1	h(n)=9 f(n)=10 Priority=1>
<id=80	parent=0	g(n)= 1	h(n)=9 f(n)=10 Priority=1>
<id=4638	parent=46	g(n)= 2	h(n)=8 f(n)=10 Priority=2>
<id=4676	parent=46	g(n)= 2	h(n)=8 f(n)=10 Priority=2>
<id=464928	parent=4649	g(n)= 4	h(n)=6 f(n)=10 Priority=4>
<id=464960	parent=4649	g(n)= 3	h(n)=7 f(n)=10 Priority=3>
<id=464961	parent=4649	g(n)= 3	h(n)=7 f(n)=10 Priority=3>
<id=46497546	parent=464975	g(n)= 6	h(n)=4 f(n)=10 Priority=6>
<id=463870	parent=4638	g(n)= 3	h(n)=7 f(n)=10 Priority=3>
<id=467613	parent=4676	g(n)= 3	h(n)=7 f(n)=10 Priority=3>
<id=46496019	parent=464960	g(n)= 4	h(n)=6 f(n)=10 Priority=4>
<id=46496109	parent=464961	g(n)= 4	h(n)=6 f(n)=10 Priority=4>
<id=46387000	parent=463870	g(n)= 4	h(n)=6 f(n)=10 Priority=4>
<id=46761379	parent=467613	g(n)= 4	h(n)=6 f(n)=10 Priority=4>
<id=46492808	parent=464928	g(n)= 6	h(n)=5 f(n)=11 Priority=6>
<id=4649754670 Priority=8>	parent=46497546	g(n)= 8	h(n)=3 f(n)=11
<id=4649754620 Priority=8>	parent=46497546	g(n)= 8	h(n)=3 f(n)=11
<id=4649601906 Priority=6>	parent=46496019	g(n)= 6	h(n)=5 f(n)=11
<id=4649610905 Priority=6>	parent=46496109	g(n)= 6	h(n)=5 f(n)=11
<id=4638700053 Priority=6>	parent=46387000	g(n)= 6	h(n)=5 f(n)=11
<id=4676137976 Priority=6>	parent=46761379	g(n)= 6	h(n)=5 f(n)=11
<id=4649280877 Priority=8>	parent=46492808	g(n)= 8	h(n)=3 f(n)=11
<id=46497569	parent=464975	g(n)= 6	h(n)=6 f(n)=12 Priority=6>

<id=46497554 parent=464975 g(n)= 6 h(n)=6 f(n)=12 Priority=6>

<id=7506 parent=75 g(n)= 2 h(n)=10f(n)=12 Priority=2>

Maximum number of iterations reached

A* using h1 Stats:

Iterations: 30

of Nodes Added to Open List: 94

of Nodes Added to Closed List: 29

Total Cost: 0

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A* Search with h2

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<id=0 parent=None g(n)= 0 h(n)=12f(n)=12 Priority=0>

<id=22 parent=0 g(n)= 1 h(n)=10f(n)=11 Priority=1>

<id=2237 parent=22 g(n)= 2 h(n)=8 f(n)=10 Priority=2>

<id=223790 parent=2237 g(n)= 4 h(n)=6 f(n)=10 Priority=4>

<id=22379002 parent=223790 g(n)= 6 h(n)=4 f(n)=10 Priority=6>

<id=2207 parent=22 g(n)= 2 h(n)=10f(n)=12 Priority=2>

<id=223747 parent=2237 g(n)= 4 h(n)=8 f(n)=12 Priority=4>

<id=2237900293 parent=22379002 g(n)= 8 h(n)=4 f(n)=12
Priority=8>

<id=2237900222 parent=22379002 g(n)= 8 h(n)=4 f(n)=12
Priority=8>

<id=22374772 parent=223747 g(n)= 6 h(n)=6 f(n)=12 Priority=6>

<id=223790022209 parent=2237900222 g(n)= 10 h(n)=2 f(n)=12
 Priority=10>

<id=2237477233 parent=22374772 g(n)= 8 h(n)=4 f(n)=12
 Priority=8>

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Goal Reached

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<id=22379002220988 parent=223790022209 g(n)= 12 h(n)=0 f(n)=12
 Priority=12>

A* using h2 Stats:

Iterations: 13

of Nodes Added to Open List: 43

of Nodes Added to Closed List: 12

Total Cost: 12

2)

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Breadth First Search

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<id=0 parent=None g(n)= 0 h(n)=8 f(n)=8 Priority=None>

<id=32 parent=0 g(n)= 1 h(n)=9 f(n)=10 Priority=None>

<id=69 parent=0 g(n)= 1 h(n)=9 f(n)=10 Priority=None>

<id=58 parent=0 g(n)= 1 h(n)=7 f(n)=8 Priority=None>

<id=3257	parent=32	g(n)= 2	h(n)=10 f(n)=12 Priority=None>
<id=3259	parent=32	g(n)= 2	h(n)=10 f(n)=12 Priority=None>
<id=6966	parent=69	g(n)= 2	h(n)=10 f(n)=12 Priority=None>
<id=5854	parent=58	g(n)= 2	h(n)=8 f(n)=10 Priority=None>
<id=5858	parent=58	g(n)= 2	h(n)=8 f(n)=10 Priority=None>
<id=5834	parent=58	g(n)= 2	h(n)=6 f(n)=8 Priority=None>
<id=325739	parent=3257	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=325783	parent=3257	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=325709	parent=3257	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=325991	parent=3259	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=325988	parent=3259	g(n)= 3	h(n)=10 f(n)=13 Priority=None>
<id=325940	parent=3259	g(n)= 4	h(n)=10 f(n)=14 Priority=None>
<id=325949	parent=3259	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=696654	parent=6966	g(n)= 3	h(n)=10 f(n)=13 Priority=None>
<id=696692	parent=6966	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=696621	parent=6966	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=585451	parent=5854	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=585451	parent=5854	g(n)= 3	h(n)=7 f(n)=10 Priority=None>
<id=585459	parent=5854	g(n)= 4	h(n)=8 f(n)=12 Priority=None>
<id=585440	parent=5854	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=585832	parent=5858	g(n)= 3	h(n)=7 f(n)=10 Priority=None>
<id=585862	parent=5858	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=585810	parent=5858	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=583420	parent=5834	g(n)= 4	h(n)=6 f(n)=10 Priority=None>
<id=583440	parent=5834	g(n)= 3	h(n)=7 f(n)=10 Priority=None>

Maximum number of iterations reached

Breadth-First Stats:

Iterations: 30

of Nodes Added to Open List: 91

of Nodes Added to Closed List: 29

Total Cost: 0

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A* Search with h1

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<id=0	parent=None	g(n)= 0	h(n)=8	f(n)=8	Priority=0>
<id=90	parent=0	g(n)= 1	h(n)=7	f(n)=8	Priority=1>
<id=9035	parent=90	g(n)= 2	h(n)=6	f(n)=8	Priority=2>
<id=903577	parent=9035	g(n)= 4	h(n)=5	f(n)=9	Priority=4>
<id=88	parent=0	g(n)= 1	h(n)=9	f(n)=10	Priority=1>
<id=20	parent=0	g(n)= 1	h(n)=9	f(n)=10	Priority=1>
<id=9056	parent=90	g(n)= 2	h(n)=8	f(n)=10	Priority=2>
<id=9054	parent=90	g(n)= 2	h(n)=8	f(n)=10	Priority=2>
<id=903562	parent=9035	g(n)= 4	h(n)=6	f(n)=10	Priority=4>
<id=903547	parent=9035	g(n)= 3	h(n)=7	f(n)=10	Priority=3>
<id=903523	parent=9035	g(n)= 3	h(n)=7	f(n)=10	Priority=3>
<id=90357784	parent=903577	g(n)= 6	h(n)=4	f(n)=10	Priority=6>
<id=905694	parent=9056	g(n)= 3	h(n)=7	f(n)=10	Priority=3>
<id=905494	parent=9054	g(n)= 3	h(n)=7	f(n)=10	Priority=3>
<id=90354781	parent=903547	g(n)= 4	h(n)=6	f(n)=10	Priority=4>
<id=90352384	parent=903523	g(n)= 4	h(n)=6	f(n)=10	Priority=4>
<id=90569483	parent=905694	g(n)= 4	h(n)=6	f(n)=10	Priority=4>
<id=90549451	parent=905494	g(n)= 4	h(n)=6	f(n)=10	Priority=4>

<id=90356242	parent=903562	g(n)= 6	h(n)=5 f(n)=11 Priority=6>
<id=9035778493	parent=90357784	g(n)= 8	h(n)=3 f(n)=11
Priority=8>			
<id=9035778406	parent=90357784	g(n)= 8	h(n)=3 f(n)=11
Priority=8>			
<id=9035478123	parent=90354781	g(n)= 6	h(n)=5 f(n)=11
Priority=6>			
<id=9035238426	parent=90352384	g(n)= 6	h(n)=5 f(n)=11
Priority=6>			
<id=9056948354	parent=90569483	g(n)= 6	h(n)=5 f(n)=11
Priority=6>			
<id=9054945169	parent=90549451	g(n)= 6	h(n)=5 f(n)=11
Priority=6>			
<id=9035624257	parent=90356242	g(n)= 8	h(n)=3 f(n)=11
Priority=8>			
<id=90357783	parent=903577	g(n)= 6	h(n)=6 f(n)=12 Priority=6>
<id=90357776	parent=903577	g(n)= 6	h(n)=6 f(n)=12 Priority=6>
<id=8818	parent=88	g(n)= 2	h(n)=10f(n)=12 Priority=2>

Maximum number of iterations reached

A* using h1 Stats:

Iterations: 30

of Nodes Added to Open List: 94

of Nodes Added to Closed List: 29

Total Cost: 0

=====

A* Search with h2

=====

<id=0	parent=None	g(n)= 0	h(n)=12 f(n)=12 Priority=0>
<id=91	parent=0	g(n)= 1	h(n)=10 f(n)=11 Priority=1>
<id=9133	parent=91	g(n)= 2	h(n)=8 f(n)=10 Priority=2>
<id=913389	parent=9133	g(n)= 4	h(n)=6 f(n)=10 Priority=4>
<id=91338973	parent=913389	g(n)= 6	h(n)=4 f(n)=10 Priority=6>
<id=9163	parent=91	g(n)= 2	h(n)=10 f(n)=12 Priority=2>
<id=913387	parent=9133	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=9133897365	parent=91338973	g(n)= 8	h(n)=4 f(n)=12 Priority=8>
<id=9133897389	parent=91338973	g(n)= 8	h(n)=4 f(n)=12 Priority=8>
<id=91338793	parent=913387	g(n)= 6	h(n)=6 f(n)=12 Priority=6>
<id=913389738947	parent=9133897389	g(n)= 10	h(n)=2 f(n)=12 Priority=10>
<id=9133879379	parent=91338793	g(n)= 8	h(n)=4 f(n)=12 Priority=8>

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Goal Reached

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<id=91338973894703	parent=913389738947	g(n)= 12	h(n)=0 f(n)=12 Priority=12>
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A* using h2 Stats:

Iterations: 13

of Nodes Added to Open List: 43

of Nodes Added to Closed List: 12

Total Cost: 12

3)

Example Output 3

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Breadth First Search

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<id=0	parent=None	g(n)= 0	h(n)=10 f(n)=10 Priority=None>
<id=7	parent=0	g(n)= 1	h(n)=11 f(n)=12 Priority=None>
<id=79	parent=0	g(n)= 1	h(n)=9 f(n)=10 Priority=None>
<id=54	parent=0	g(n)= 1	h(n)=10 f(n)=11 Priority=None>
<id=738	parent=7	g(n)= 2	h(n)=12 f(n)=14 Priority=None>
<id=721	parent=7	g(n)= 2	h(n)=12 f(n)=14 Priority=None>
<id=7923	parent=79	g(n)= 2	h(n)=8 f(n)=10 Priority=None>
<id=5401	parent=54	g(n)= 2	h(n)=11 f(n)=13 Priority=None>
<id=5407	parent=54	g(n)= 2	h(n)=10 f(n)=12 Priority=None>
<id=5462	parent=54	g(n)= 2	h(n)=9 f(n)=11 Priority=None>
<id=73850	parent=738	g(n)= 3	h(n)=12 f(n)=15 Priority=None>
<id=73880	parent=738	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=73883	parent=738	g(n)= 3	h(n)=13 f(n)=16 Priority=None>
<id=72129	parent=721	g(n)= 3	h(n)=13 f(n)=16 Priority=None>
<id=72153	parent=721	g(n)= 3	h(n)=12 f(n)=15 Priority=None>
<id=72104	parent=721	g(n)= 4	h(n)=12 f(n)=16 Priority=None>
<id=72109	parent=721	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=792354	parent=7923	g(n)= 3	h(n)=7 f(n)=10 Priority=None>
<id=792395	parent=7923	g(n)= 3	h(n)=9 f(n)=12 Priority=None>
<id=792356	parent=7923	g(n)= 3	h(n)=9 f(n)=12 Priority=None>

<id=540172	parent=5401	g(n)= 3	h(n)=12 f(n)=15 Priority=None>
<id=540147	parent=5401	g(n)= 3	h(n)=10 f(n)=13 Priority=None>
<id=540139	parent=5401	g(n)= 4	h(n)=11 f(n)=15 Priority=None>
<id=540178	parent=5401	g(n)= 3	h(n)=12 f(n)=15 Priority=None>
<id=540729	parent=5407	g(n)= 3	h(n)=10 f(n)=13 Priority=None>
<id=540700	parent=5407	g(n)= 3	h(n)=11 f(n)=14 Priority=None>
<id=540741	parent=5407	g(n)= 3	h(n)=10 f(n)=13 Priority=None>
<id=546265	parent=5462	g(n)= 4	h(n)=8 f(n)=12 Priority=None>
<id=546206	parent=5462	g(n)= 3	h(n)=10 f(n)=13 Priority=None>

Maximum number of iterations reached

Breadth-First Stats:

Iterations: 30

of Nodes Added to Open List: 91

of Nodes Added to Closed List: 29

Total Cost: 0

=====

A* Search with h1

=====

<id=0	parent=None	g(n)= 0	h(n)=10 f(n)=10 Priority=0>
<id=30	parent=0	g(n)= 1	h(n)=9 f(n)=10 Priority=1>
<id=3042	parent=30	g(n)= 2	h(n)=8 f(n)=10 Priority=2>
<id=304209	parent=3042	g(n)= 3	h(n)=7 f(n)=10 Priority=3>
<id=30420958	parent=304209	g(n)= 4	h(n)=6 f(n)=10 Priority=4>

<id=32	parent=0	g(n)= 1	h(n)=10 f(n)=11 Priority=1>
<id=3042095809	parent=30420958	g(n)= 6	h(n)=5 f(n)=11 Priority=6>
<id=3247	parent=32	g(n)= 2	h(n)=9 f(n)=11 Priority=2>
<id=76	parent=0	g(n)= 1	h(n)=11 f(n)=12 Priority=1>
<id=304209	parent=3042	g(n)= 3	h(n)=9 f(n)=12 Priority=3>
<id=304246	parent=3042	g(n)= 3	h(n)=9 f(n)=12 Priority=3>
<id=30420954	parent=304209	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=30420966	parent=304209	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=30420978	parent=304209	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=3042095844	parent=30420958	g(n)= 5	h(n)=7 f(n)=12 Priority=5>
<id=3042095834	parent=30420958	g(n)= 5	h(n)=7 f(n)=12 Priority=5>
<id=3292	parent=32	g(n)= 2	h(n)=10 f(n)=12 Priority=2>
<id=304209580955	parent=3042095809	g(n)= 8	h(n)=4 f(n)=12 Priority=8>
<id=324722	parent=3247	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=30420966	parent=304209	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=30424632	parent=304246	g(n)= 4	h(n)=8 f(n)=12 Priority=4>
<id=3042095427	parent=30420954	g(n)= 5	h(n)=7 f(n)=12 Priority=5>
<id=3042096687	parent=30420966	g(n)= 5	h(n)=7 f(n)=12 Priority=5>
<id=3042097838	parent=30420978	g(n)= 5	h(n)=7 f(n)=12 Priority=5>
<id=304209584462	parent=3042095844	g(n)= 6	h(n)=6 f(n)=12 Priority=6>
<id=304209583411	parent=3042095834	g(n)= 6	h(n)=6 f(n)=12 Priority=6>
<id=30420958095531	parent=304209580955	g(n)= 10	h(n)=2 f(n)=12 Priority=10>

<id=3042096658 parent=30420966 g(n)= 5 h(n)=7 f(n)=12
 Priority=5>

<id=3042463247 parent=30424632 g(n)= 5 h(n)=7 f(n)=12
 Priority=5>

Maximum number of iterations reached

A* using h1 Stats:

Iterations: 30

of Nodes Added to Open List: 97

of Nodes Added to Closed List: 29

Total Cost: 0

=====

A* Search with h2

=====

<id=0 parent=None g(n)= 0 h(n)=14 f(n)=14 Priority=0>

<id=0 parent=0 g(n)= 1 h(n)=14 f(n)=15 Priority=1>

<id=22 parent=0 g(n)= 1 h(n)=14 f(n)=15 Priority=1>

<id=2279 parent=22 g(n)= 2 h(n)=12 f(n)=14 Priority=2>

<id=227981 parent=2279 g(n)= 3 h(n)=10 f(n)=13 Priority=3>

<id=22798156 parent=227981 g(n)= 4 h(n)=8 f(n)=12 Priority=4>

<id=2279815685 parent=22798156 g(n)= 6 h(n)=6 f(n)=12
 Priority=6>

<id=227981568502 parent=2279815685 g(n)= 8 h(n)=4 f(n)=12
 Priority=8>

<id=22798156850207 Priority=10>	parent=227981568502	g(n)= 10	h(n)=2 f(n)=12
<id=22798104	parent=227981	g(n)= 4	h(n)=10f(n)=14 Priority=4>
<id=2279815605 Priority=6>	parent=22798156	g(n)= 6	h(n)=8 f(n)=14
<id=227981568563 Priority=8>	parent=2279815685	g(n)= 8	h(n)=6 f(n)=14
<id=3	parent=0	g(n)= 1	h(n)=14f(n)=15 Priority=1>
<id=364	parent=3	g(n)= 2	h(n)=12f(n)=14 Priority=2>
<id=36423	parent=364	g(n)= 4	h(n)=10f(n)=14 Priority=4>
<id=3642334	parent=36423	g(n)= 6	h(n)=8 f(n)=14 Priority=6>
<id=364233458	parent=3642334	g(n)= 8	h(n)=6 f(n)=14 Priority=8>
<id=227913	parent=2279	g(n)= 3	h(n)=12f(n)=15 Priority=3>
<id=2279815660 Priority=5>	parent=22798156	g(n)= 5	h(n)=10f(n)=15
<id=227981566066 Priority=6>	parent=2279815660	g(n)= 6	h(n)=8 f(n)=14
<id=22798156606609 Priority=8>	parent=227981566066	g(n)= 8	h(n)=6 f(n)=14
<id=2279815660660931 f(n)=14 Priority=10>	parent=22798156606609	g(n)= 10	h(n)=4
<id=227981566066093108 f(n)=14 Priority=12>	parent=2279815660660931	g(n)= 12	h(n)=2
<id=2279815691 Priority=5>	parent=22798156	g(n)= 5	h(n)=10f(n)=15
<id=227981569135 Priority=6>	parent=2279815691	g(n)= 6	h(n)=8 f(n)=14
<id=22798156913583 Priority=8>	parent=227981569135	g(n)= 8	h(n)=6 f(n)=14
<id=2279815691358348 f(n)=14 Priority=10>	parent=22798156913583	g(n)= 10	h(n)=4
<id=227981569135834856 f(n)=14 Priority=12>	parent=2279815691358348	g(n)= 12	h(n)=2

<id=227981568505 parent=2279815685 g(n)= 7 h(n)=8 f(n)=15
 Priority=7>

Maximum number of iterations reached

A* using h2 Stats:

Iterations: 30

of Nodes Added to Open List: 98

of Nodes Added to Closed List: 29

Total Cost: 0