Task 1:A*
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Original image

Manhattan 8 directions

Dijkstra 8 directions

Diagonal 8 directions

Inadmissible heuristic 8 directions
(Manhattan^2)

Euclidean 4 directions

Manhattan 4 directions

Euclidean 8 directions

Euclidean/2 8 directions(admissible)

Dijkstra 4 directions

Diagonal 4 directions

Manhattan^2   (4 directions)

Euclidean/2(4 directions)

Cost:

Cost	Dijkstra	Admissible	Non Admissible	Diagonal	Manhattan	Euclidean
4 direction	180	180	204	180	180	180
8 direction	146.598	146.598	189.26	146.598	146.598	146.598

Time:

Time	Dijkstra	Admissible	Non Admissible	Diagonal	Manhattan	Euclidean
4 direction	0.282	0.226	0.148	0.196	0.152	0.214
8 direction	0.372	0.342	0.242	0.328	0.272	0.296