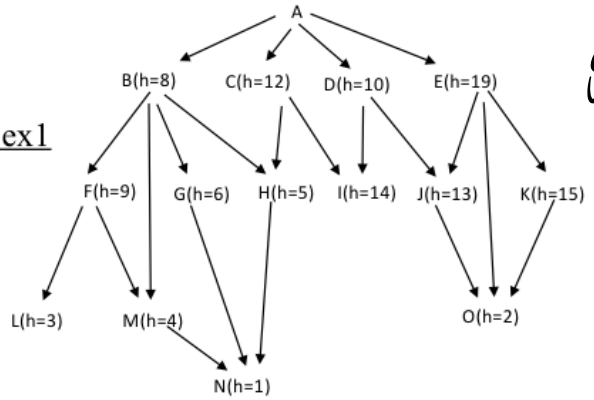
① greedy BF

Fig.ex1



open	closed
A	[ ]
B8 D10 C12 E19	A
M4 H5 G6 F9 D10 C12 E19	B8 A
N1 ~	M4 ~
H5 G6 F9 D10 C12 E19	N1 ~
G6 F9 D10 C12 E19	H5 ~
L3 D10 C12 E19	F9 G6 ~
D10 C12 E19	L3 ~
C12 J13 I14 E19	D10 ~
J13 I14 E19	C12 ~
O2 I14 E19	J13 ~

↑ Goal

(2)

Yes As long as we are able to select the best state from all states in Open. The best first search can be performed normally.

(3)

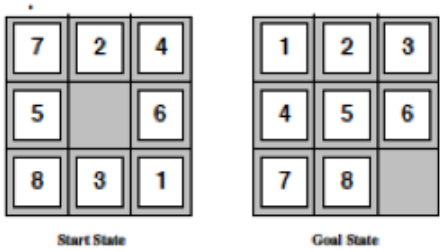


Fig.ex3

h_1 = number of misplaced tiles

h_2 = total Manhattan distance

h_1 : 6

h_2 : 14