



A*

Expanded nodes

fringe

S

S(0+6)

A

A(2+4), B(3+4)

B

B(3+4), C(5+4)

CfromB

CfromA(5+4), CfromB(4+4), DfromB(6+3.5)

E

CfromA(5+4), DfromB(6+3.5), DfromC(5+3.5), E(7+1)

DfromC

CfromA(5+4), DfromB(6+3.5), DfromC(5+3.5), GfromE(9+0)

F

CfromA(5+4), DfromB(6+3.5), GfromE(9+0), F(7+1)

GfromF

CfromA(5+4), DfromB(6+3.5), GfromE(9+0), GfromF(8+0)

Solution: GfromF-F-DfromC-CfromB-B-S

A	B	C	D	E
F	H	I	J	K
L	S start	M	N	O
P	Q	R	T	U
V	W	X	G goal	Y

Best-first

Expanded

fringe

S

S 4

M

H 5, M 3

H 5, I 4, R 2

R		H 5, I 4
I		H 5, C 5, J 3
J		H 5, C 5, D 4
D		H 5, C 5, E 5
C		H 5, E 5, B 6
E		H 5, B 6, K 4
K		H 5, B 6, O 3
O		H 5, B 6, N 2
N		H 5, B 6, T 1
T		H 5, B 6, U 2, G 0
G	Solution:	G-T-N-O-K-E-D-J-I-M-S