

Key Sample-4 (Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

Node Expanded	Unvisited Successors
S	['B', 'D', 'H', 'K']
B	['D', 'H', 'K', 'C', 'G', 'I']
C	['D', 'H', 'K', 'G', 'I']
D	['H', 'K', 'G', 'I']
G	['H', 'K', 'I']
	Solution path: S -> B -> G

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	K(2+7=9), B(5+8=13), H(6+8=14), D(9+5=14)
K	J(3+5=8), B(5+8=13), D(9+5=14), H(6+8=14), C(8+12=20)
J	F(7+3=10), G(10+0=10), B(5+8=13), D(9+5=14), H(6+8=14) I(10+6=16), C(8+12=20)
F	G(10+0=10), B(5+8=13), D(9+5=14), I(8+6=14), H(6+8=14) C(8+12=20)
G	[]
	Solution path: S -> K -> J -> G

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BREADTH-FIRST SEARCH: S -> G

Node Expanded	Search Fringe
S	['B', 'D', 'H', 'K']
B	['C', 'D', 'G', 'H', 'I', 'K']
D	['C', 'G', 'H', 'I', 'K']
H	['C', 'F', 'G', 'I', 'K']
K	['C', 'F', 'G', 'I', 'J']
C	['F', 'G', 'I', 'J']
G	[]
	Solution path: S -> B -> G

ITERATIVE DEEPENING SEARCH: S -> G (Depth Limit: 2)

Node Expanded	Search Fringe	Depth
S	[]	0
S	['B', 'D', 'H', 'K']	0
B	['C', 'G', 'I', 'S']	1
D	['C', 'G', 'H', 'S']	1
H	['D', 'F', 'I', 'K', 'S']	1
K	['C', 'H', 'J', 'S']	1
S	['B', 'D', 'H', 'K']	0
B	['C', 'G', 'I', 'S']	1
C	['B', 'D', 'K']	2
G	[]	2
	Solution path: S -> B -> G	