

Key Sample-6(Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

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

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	E(2+4=6), I(3+5=8), K(7+2=9), B(4+9=13)
E	I(3+5=8), K(7+2=9), G(10+0=10), B(4+9=13), F(12+4=16)
I	K(6+2=8), F(6+4=10), G(10+0=10), B(4+9=13), H(8+8=16) J(10+8=18), C(13+6=19)
K	K(7+2=9), G(10+0=10), F(6+4=10), B(4+9=13), H(8+8=16) J(10+8=18), C(13+6=19)
F	G(10+0=10), B(4+9=13), F(12+4=16), H(8+8=16), J(10+8=18) C(13+6=19)
G	[]
	Solution path: S -> E -> G

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BREADTH-FIRST SEARCH: S -> G

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

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

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