

Key Sample-3(Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

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

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	F(4+5=9), B(9+2=11), E(7+4=11)
F	E(5+4=9), B(9+2=11), H(9+4=13), I(12+6=18), K(10+12=22)
E	B(7+2=9), E(7+4=11), H(7+4=11), D(8+4=12), I(10+6=16) J(10+6=16), K(10+12=22)
B	B(9+2=11), E(7+4=11), G(11+0=11), H(7+4=11), D(8+4=12) J(10+6=16), I(10+6=16), K(10+12=22)
G	[]
	Solution path: S -> F -> E -> B -> G

Key Sample-3(Page 2 of 2)

BREADTH-FIRST SEARCH: S -> G

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

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

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