

Key Sample-2 (Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

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

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	C(5+5=10), B(2+9=11), I(7+8=15)
C	J(6+4=10), B(2+9=11), G(12+0=12), D(10+4=14), I(7+8=15)
J	B(2+9=11), G(12+0=12), D(10+4=14), I(7+8=15), K(15+6=21)
B	G(12+0=12), I(5+8=13), D(10+4=14), K(15+6=21), B(13+9=22)
G	[]
	Solution path: S -> C -> G

Key Sample-2 (Page 2 of 2)

BREADTH-FIRST SEARCH: S -> G

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

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

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