

Key Sample-5(Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

Node Expanded	Unvisited Successors
S	B(1), C(1), H(1), I(1), J(1)
B	G(2), K(2), C(1), H(1), I(1), J(1)
G	K(2), C(1), H(1), I(1), J(1)
	Solution path: S -> B -> G

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	I(1+5=6), C(3+4=7), J(3+7=10), H(6+5=11), B(10+4=14)
I	C(3+4=7), J(3+7=10), H(6+5=11), E(9+3=12), B(10+4=14)
C	D(4+5=9), J(3+7=10), G(11+0=11), H(6+5=11), E(9+3=12) B(10+4=14)
D	E(7+3=10), J(3+7=10), G(11+0=11), H(6+5=11), B(10+4=14) K(12+4=16)
E	J(3+7=10), G(11+0=11), H(6+5=11), B(10+4=14), K(12+4=16)
J	G(11+0=11), H(6+5=11), K(7+4=11), B(10+4=14)
G	H(6+5=11), K(7+4=11), B(10+4=14)
	Solution path: S -> C -> D -> E -> G

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BREADTH-FIRST SEARCH: S -> G

Node Expanded	Search Fringe
S	B(1), C(1), H(1), I(1), J(1)
B	C(1), H(1), I(1), J(1), G(2), K(2)
C	H(1), I(1), J(1), D(2), G(2), K(2)
H	I(1), J(1), D(2), G(2), K(2)
I	J(1), D(2), E(2), G(2), K(2)
J	D(2), E(2), G(2), K(2)
D	E(2), G(2), K(2)
E	G(2), K(2)
G	K(2)
	Solution path: S -> B -> G

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

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