

Key Sample-3 (Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

Node Expanded	Unvisited Successors
S	B(1), E(1), I(1)
B	C(2), J(2), E(1), I(1)
C	G(3), H(3), K(3), J(2), E(1), I(1)
G	H(3), K(3), J(2), E(1), I(1)
	Solution path: S -> B -> C -> G

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	I(3+8=11), E(6+7=13), B(7+7=14)
I	E(5+7=12), B(7+7=14), H(11+8=19), J(12+8=20), F(11+11=22)
E	B(7+7=14), G(14+0=14), H(11+8=19), J(12+8=20), K(15+6=21) F(11+11=22)
B	G(14+0=14), J(8+8=16), C(14+4=18), H(11+8=19), K(15+6=21) F(11+11=22)
G	J(8+8=16), C(14+4=18), H(11+8=19), K(15+6=21), F(11+11=22)
	Solution path: S -> I -> E -> G

Key Sample-3(Page 2 of 2)

BREADTH-FIRST SEARCH: S -> G

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

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

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