

Key Sample-6 (Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

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

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	H(2+5=7), B(4+4=8), C(9+2=11), J(9+4=13), K(7+9=16)
H	B(4+4=8), J(4+4=8), I(3+6=9), C(9+2=11), F(8+4=12) K(7+9=16)
B	J(4+4=8), C(7+2=9), I(3+6=9), F(6+4=10), K(7+9=16)
J	C(7+2=9), F(5+4=9), I(3+6=9), K(7+9=16)
C	F(5+4=9), I(3+6=9), G(10+0=10), E(11+5=16), K(7+9=16)
F	I(3+6=9), G(10+0=10), E(6+5=11), K(7+9=16)
I	G(10+0=10), E(6+5=11), K(7+9=16)
G	E(6+5=11), K(7+9=16)
	Solution path: S -> B -> C -> G

Key Sample-6(Page 2 of 2)

BREADTH-FIRST SEARCH: S -> G

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

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

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