

Key Sample-1(Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

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

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	B(1+5=6), C(5+2=7), H(7+3=10), J(6+5=11)
B	C(5+2=7), E(3+5=8), H(7+3=10), J(6+5=11)
C	E(3+5=8), K(6+2=8), D(6+3=9), H(7+3=10), G(11+0=11) J(6+5=11)
E	K(6+2=8), D(6+3=9), F(5+4=9), H(7+3=10), G(11+0=11) J(6+5=11)
K	D(6+3=9), F(5+4=9), G(9+0=9), H(7+3=10), J(6+5=11)
D	F(5+4=9), G(9+0=9), H(7+3=10), J(6+5=11)
F	G(9+0=9), H(7+3=10), J(6+5=11)
G	H(7+3=10), J(6+5=11)
	Solution path: S -> C -> K -> G

Key Sample-1(Page 2 of 2)

BREADTH-FIRST SEARCH: S -> G

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