

Key Sample-2 (Page 1 of 2)

DEPTH-FIRST SEARCH: S -> G

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

A* SEARCH: S -> G

Node Expanded	Search Fringe (g+h=f)
S	B(3+6=9), J(3+6=9), H(9+4=13), I(9+9=18)
B	J(3+6=9), D(4+7=11), H(9+4=13), E(10+6=16), I(9+9=18) C(11+10=21)
J	K(5+4=9), D(4+7=11), E(5+6=11), H(9+4=13), I(9+9=18) C(11+10=21)
K	G(10+0=10), D(4+7=11), E(5+6=11), H(9+4=13), I(9+9=18) C(11+10=21)
G	D(4+7=11), E(5+6=11), H(9+4=13), I(9+9=18), C(11+10=21)
	Solution path: S -> J -> K -> G

Key Sample-2 (Page 2 of 2)

BREADTH-FIRST SEARCH: S -> G

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

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

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