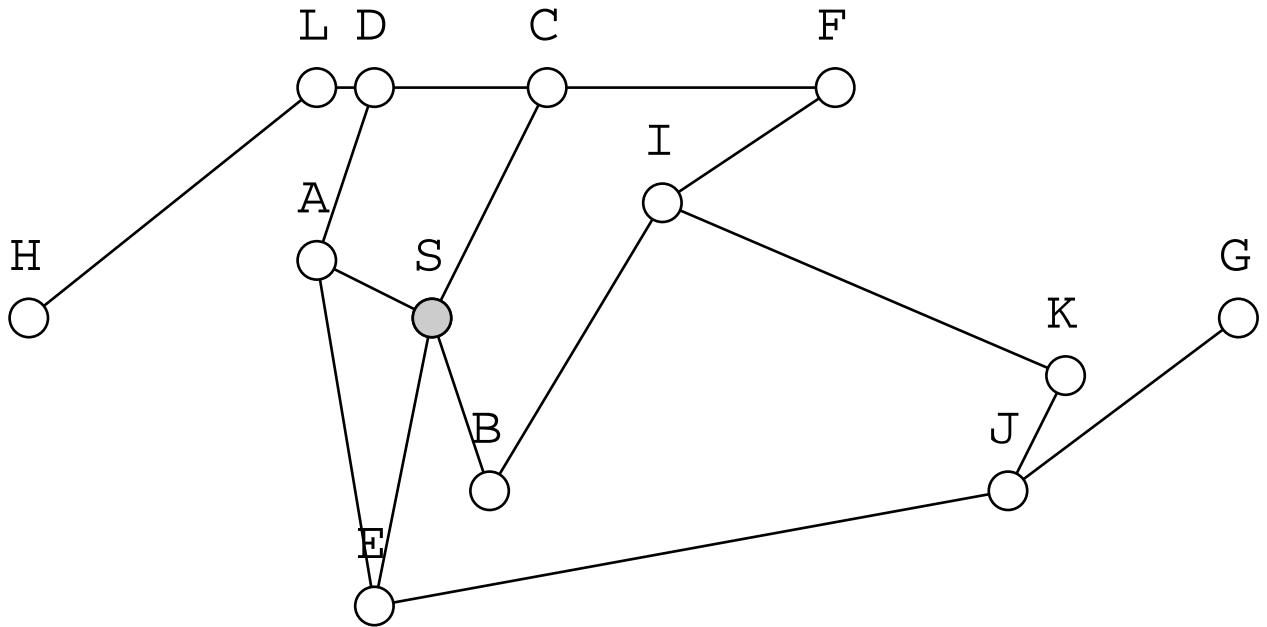
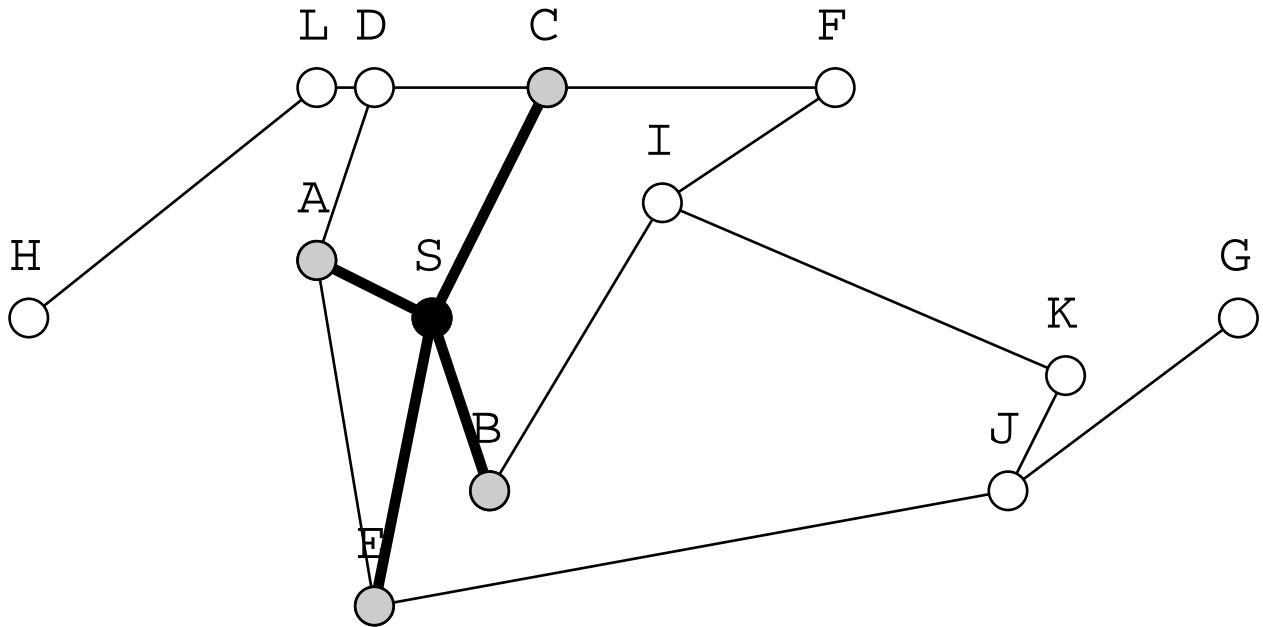


A* search
Iteration 0



OPEN list:
S: g= 0.0 h=14.0 f=14.0 <== expand
CLOSED list:

A* search
Iteration 1



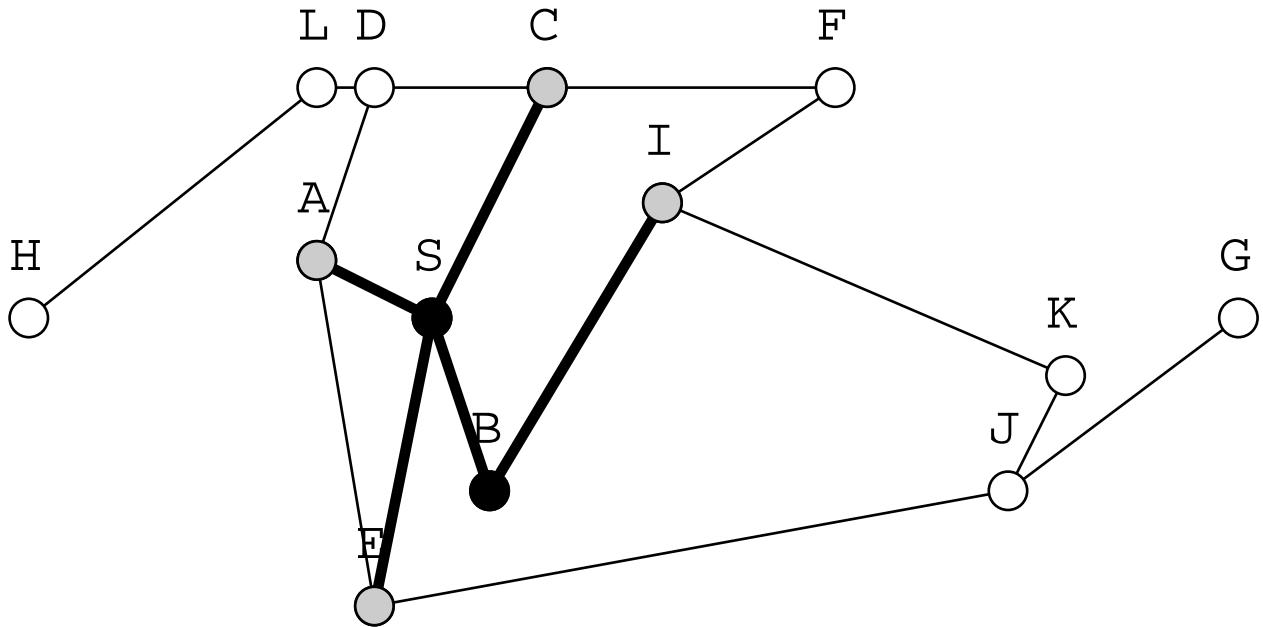
OPEN list:

A: g= 2.2 h=16.0 f=18.3
C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5 <== expand
E: g= 5.1 h=15.8 f=20.9

CLOSED list:

S: g= 0.0 h=14.0 f=14.0

A* search
Iteration 2



OPEN list:

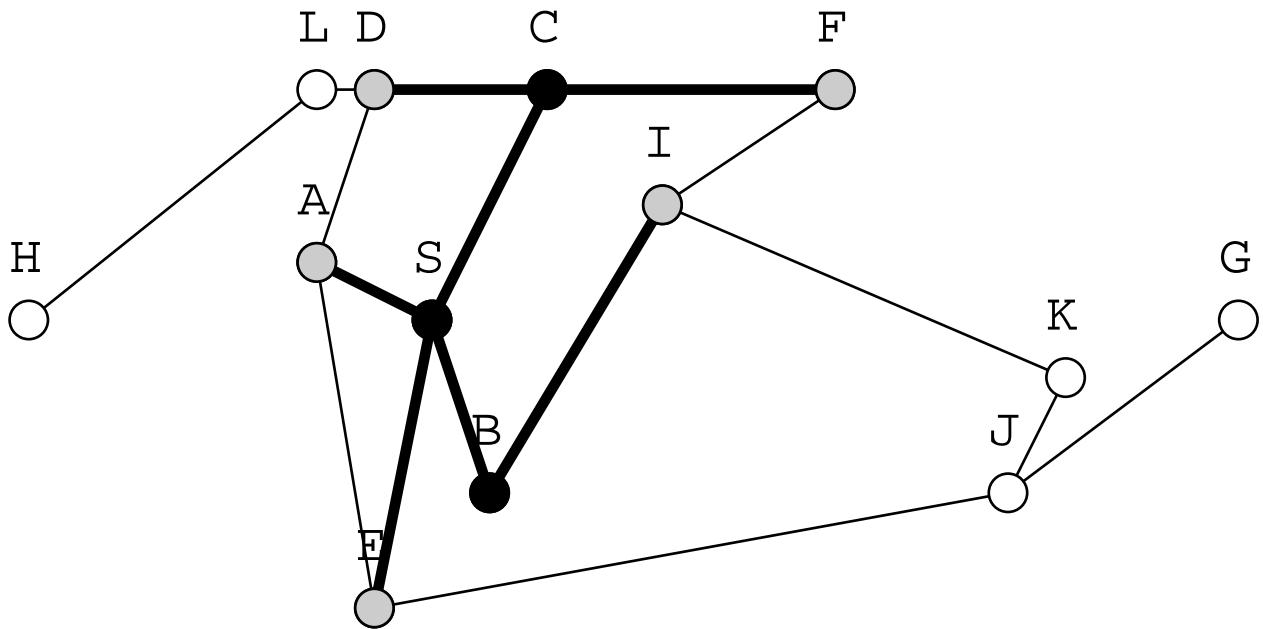
I:	$g= 9.0$	$h=10.2$	$f=19.2$
A:	$g= 2.2$	$h=16.0$	$f=18.3$
C:	$g= 4.5$	$h=12.6$	$f=17.1$
E:	$g= 5.1$	$h=15.8$	$f=20.9$

<== expand

CLOSED list:

B:	$g= 3.2$	$h=13.3$	$f=16.5$
S:	$g= 0.0$	$h=14.0$	$f=14.0$

A* search
Iteration 3



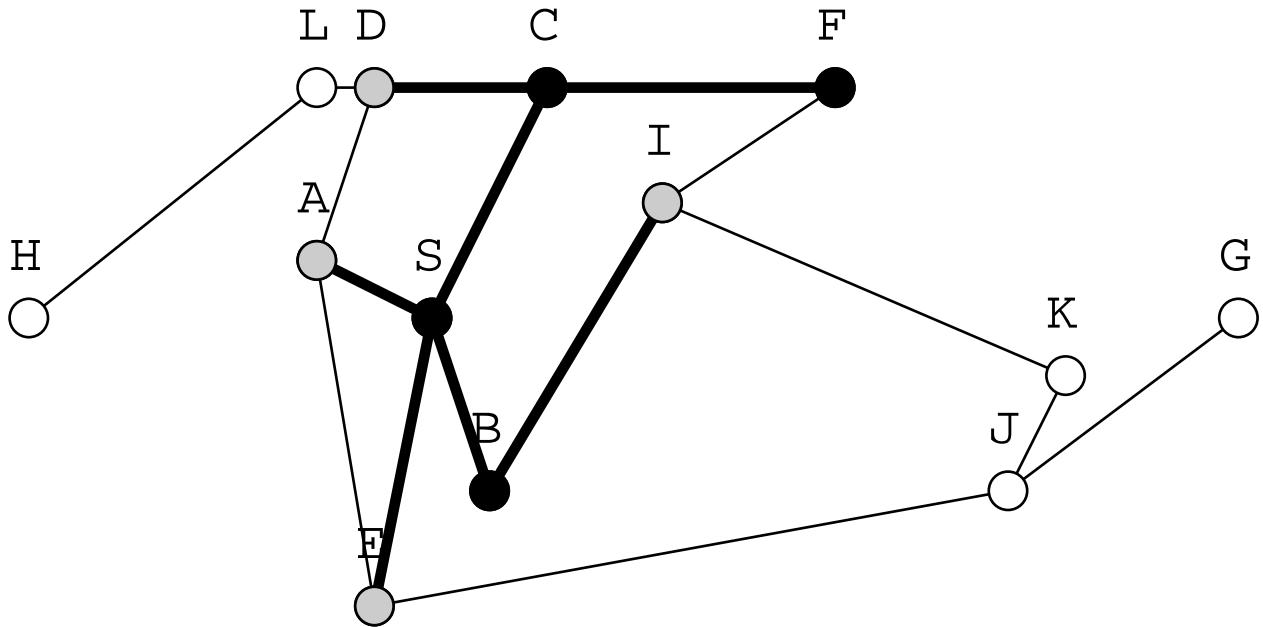
OPEN list:

F: g= 9.5 h= 8.1 f=17.5 <== expand
D: g= 7.5 h=15.5 f=23.0
I: g= 9.0 h=10.2 f=19.2
A: g= 2.2 h=16.0 f=18.3
E: g= 5.1 h=15.8 f=20.9

CLOSED list:

C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5
S: g= 0.0 h=14.0 f=14.0

A* search
Iteration 4



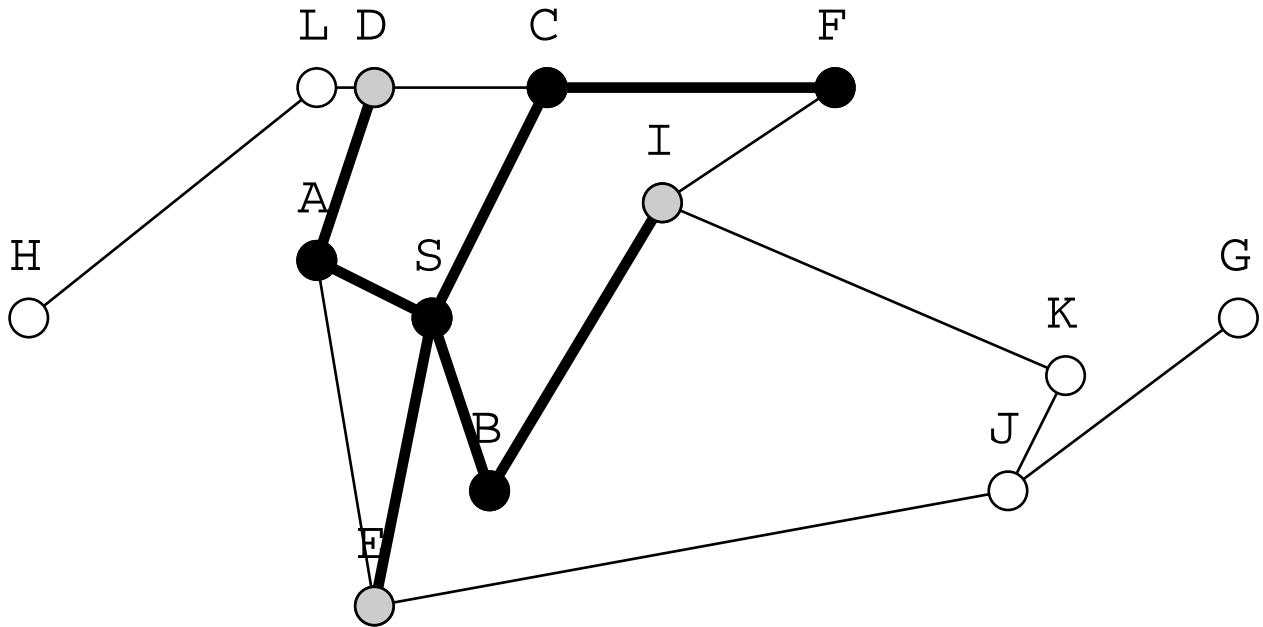
OPEN list:

D:	$g= 7.5$	$h=15.5$	$f=23.0$
I:	$g= 9.0$	$h=10.2$	$f=19.2$
A:	$g= 2.2$	$h=16.0$	$f=18.3$
E:	$g= 5.1$	$h=15.8$	$f=20.9$

CLOSED list:

F:	$g= 9.5$	$h= 8.1$	$f=17.5$
C:	$g= 4.5$	$h=12.6$	$f=17.1$
B:	$g= 3.2$	$h=13.3$	$f=16.5$
S:	$g= 0.0$	$h=14.0$	$f=14.0$

A* search
Iteration 5



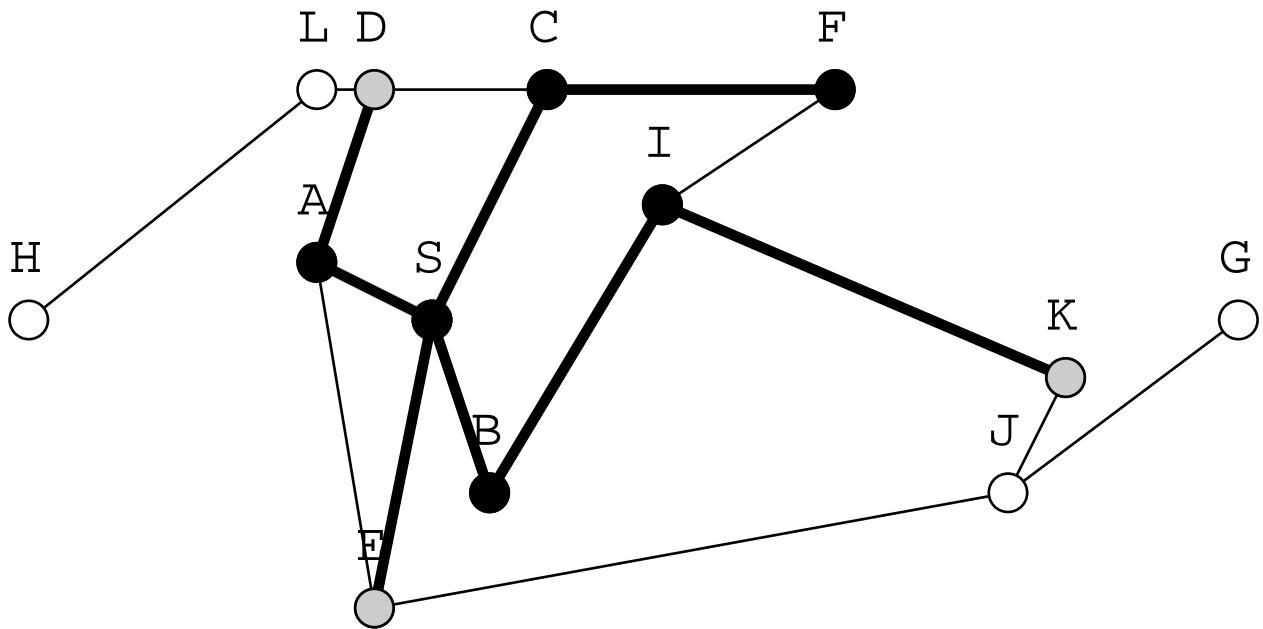
OPEN list:

D: g= 5.4 h=15.5 f=20.9
I: g= 9.0 h=10.2 f=19.2 <== expand
E: g= 5.1 h=15.8 f=20.9

CLOSED list:

A: g= 2.2 h=16.0 f=18.3
F: g= 9.5 h= 8.1 f=17.5
C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5
S: g= 0.0 h=14.0 f=14.0

A* search
Iteration 6



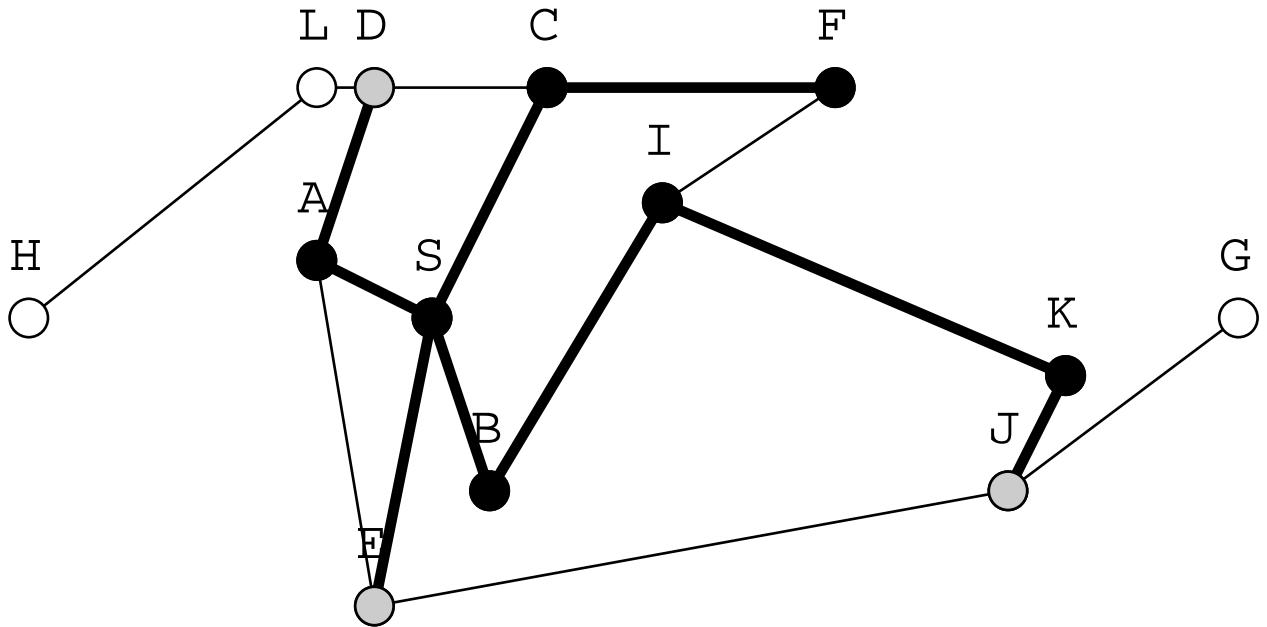
OPEN list:

K: g=16.6 h= 3.2 f=19.8 <== expand
D: g= 5.4 h=15.5 f=20.9
E: g= 5.1 h=15.8 f=20.9

CLOSED list:

I: g= 9.0 h=10.2 f=19.2
A: g= 2.2 h=16.0 f=18.3
F: g= 9.5 h= 8.1 f=17.5
C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5
S: g= 0.0 h=14.0 f=14.0

A* search
Iteration 7



OPEN list:

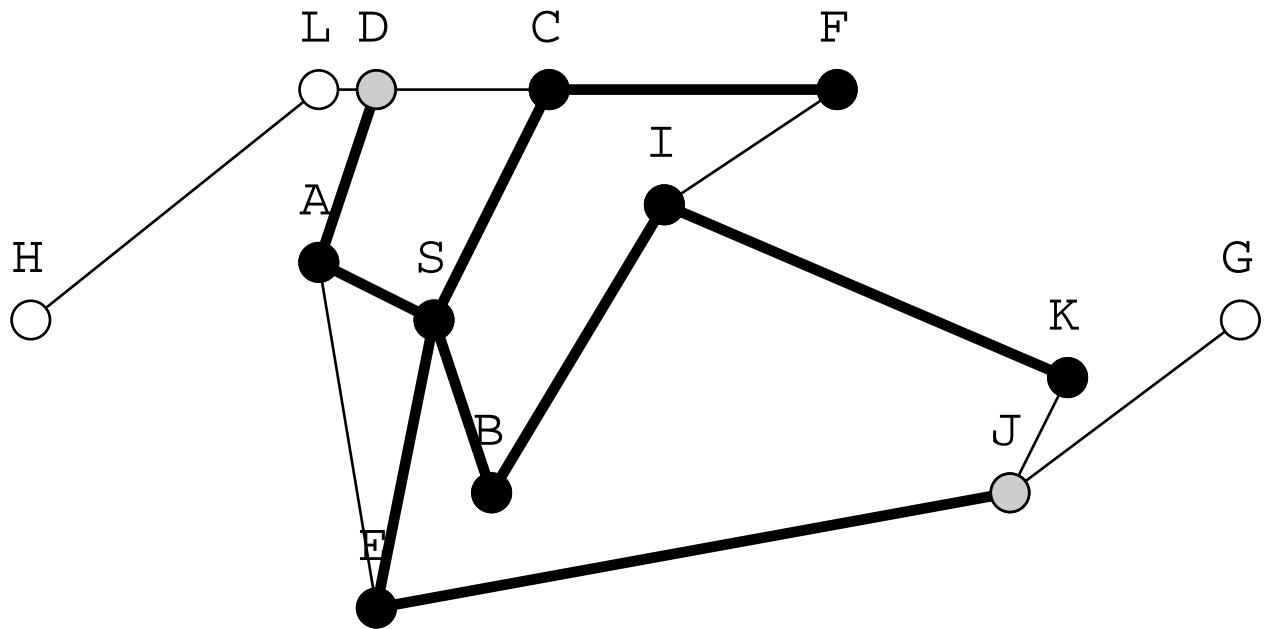
J:	$g=18.8$	$h=5.0$	$f=23.8$
D:	$g=5.4$	$h=15.5$	$f=20.9$
E:	$g=5.1$	$h=15.8$	$f=20.9$

<== expand

CLOSED list:

K:	$g=16.6$	$h=3.2$	$f=19.8$
I:	$g=9.0$	$h=10.2$	$f=19.2$
A:	$g=2.2$	$h=16.0$	$f=18.3$
F:	$g=9.5$	$h=8.1$	$f=17.5$
C:	$g=4.5$	$h=12.6$	$f=17.1$
B:	$g=3.2$	$h=13.3$	$f=16.5$
S:	$g=0.0$	$h=14.0$	$f=14.0$

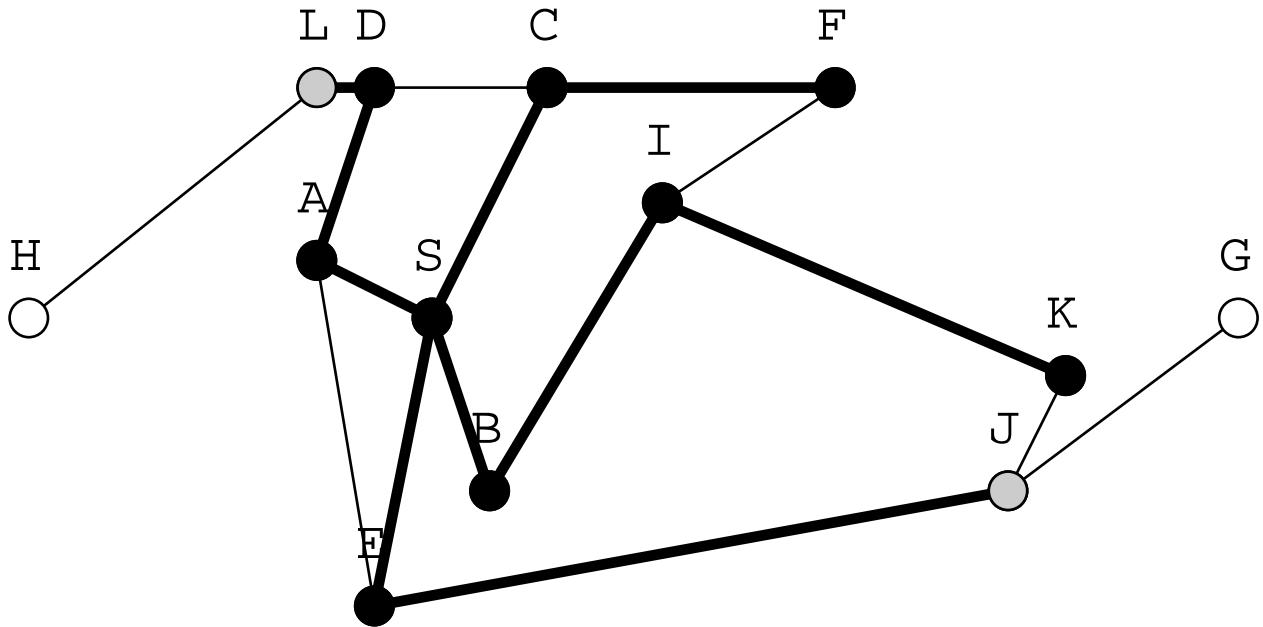
A* search
Iteration 8



OPEN list:
J: g=16.3 h= 5.0 f=21.3
D: g= 5.4 h=15.5 f=20.9 <== expand

CLOSED list:
E: g= 5.1 h=15.8 f=20.9
K: g=16.6 h= 3.2 f=19.8
I: g= 9.0 h=10.2 f=19.2
A: g= 2.2 h=16.0 f=18.3
F: g= 9.5 h= 8.1 f=17.5
C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5
S: g= 0.0 h=14.0 f=14.0

A* search
Iteration 9



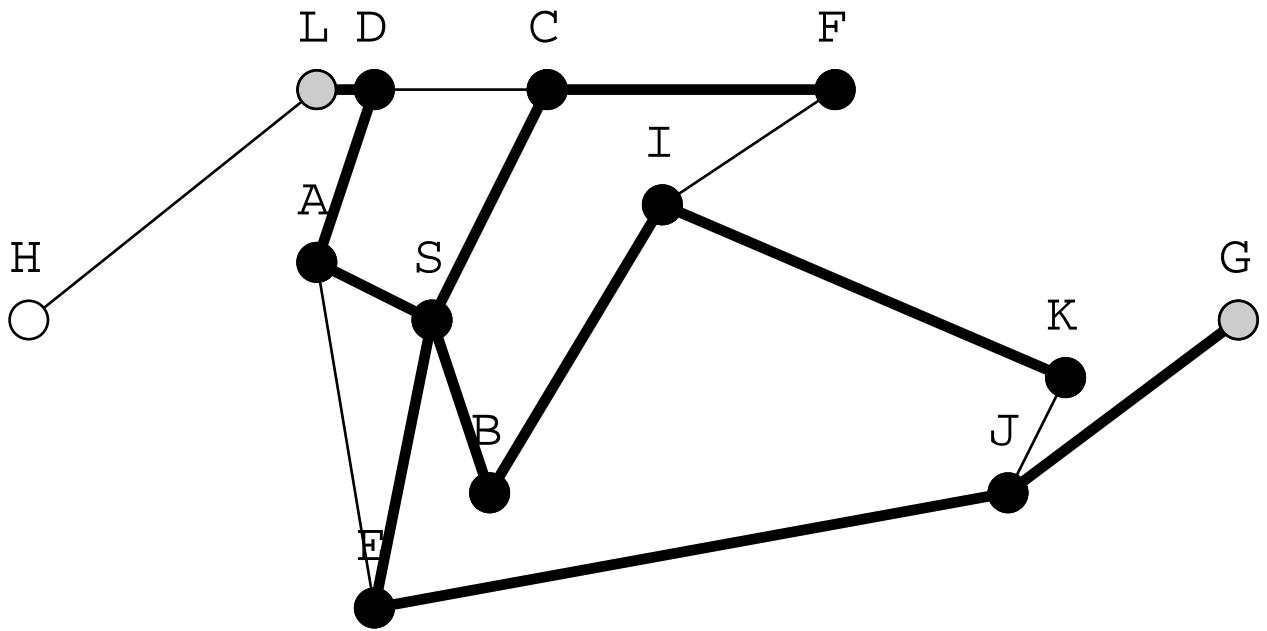
OPEN list:

L: g= 6.4 h=16.5 f=22.9
J: g=16.3 h= 5.0 f=21.3 <== expand

CLOSED list:

D: g= 5.4 h=15.5 f=20.9
E: g= 5.1 h=15.8 f=20.9
K: g=16.6 h= 3.2 f=19.8
I: g= 9.0 h=10.2 f=19.2
A: g= 2.2 h=16.0 f=18.3
F: g= 9.5 h= 8.1 f=17.5
C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5
S: g= 0.0 h=14.0 f=14.0

A* search
Iteration 10



OPEN list:
G: g=21.3 h= 0.0 f=21.3 <== expand
L: g= 6.4 h=16.5 f=22.9

CLOSED list:
J: g=16.3 h= 5.0 f=21.3
D: g= 5.4 h=15.5 f=20.9
E: g= 5.1 h=15.8 f=20.9
K: g=16.6 h= 3.2 f=19.8
I: g= 9.0 h=10.2 f=19.2
A: g= 2.2 h=16.0 f=18.3
F: g= 9.5 h= 8.1 f=17.5
C: g= 4.5 h=12.6 f=17.1
B: g= 3.2 h=13.3 f=16.5
S: g= 0.0 h=14.0 f=14.0