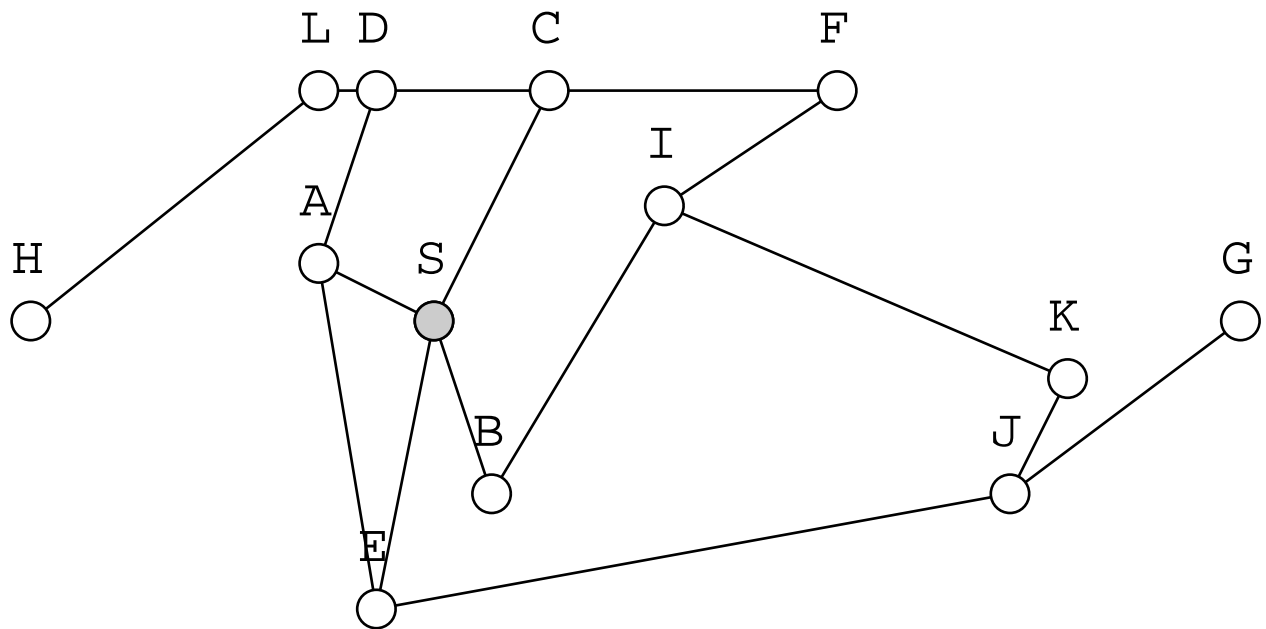Uniform cost search

Iteration 0

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

Uniform cost search
Iteration 1

OPEN list:
```
  A: g= 2.2 h= 0.0 f= 2.2   <== expand
  C: g= 4.5 h= 0.0 f= 4.5
  B: g= 3.2 h= 0.0 f= 3.2
  E: g= 5.1 h= 0.0 f= 5.1
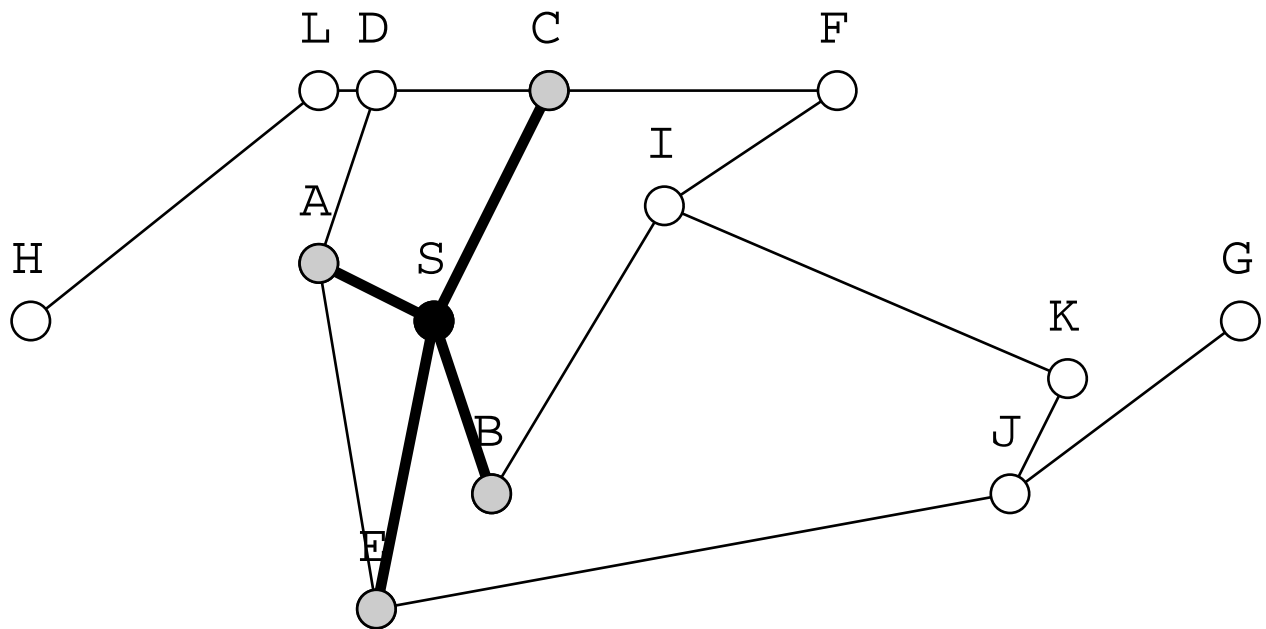```
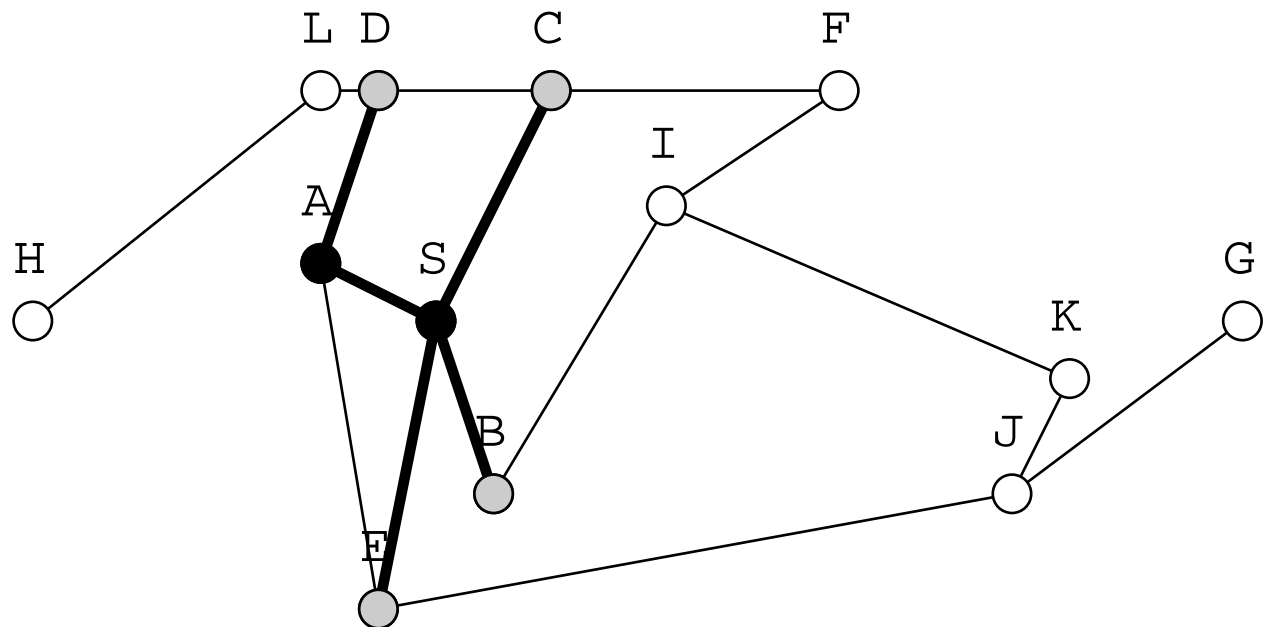CLOSED list:
```
  S: g= 0.0 h= 0.0 f= 0.0
```

Uniform cost search
Iteration 2



OPEN list:
  D: g= 5.4 h= 0.0 f= 5.4
  C: g= 4.5 h= 0.0 f= 4.5
  B: g= 3.2 h= 0.0 f= 3.2   <== expand
  E: g= 5.1 h= 0.0 f= 5.1
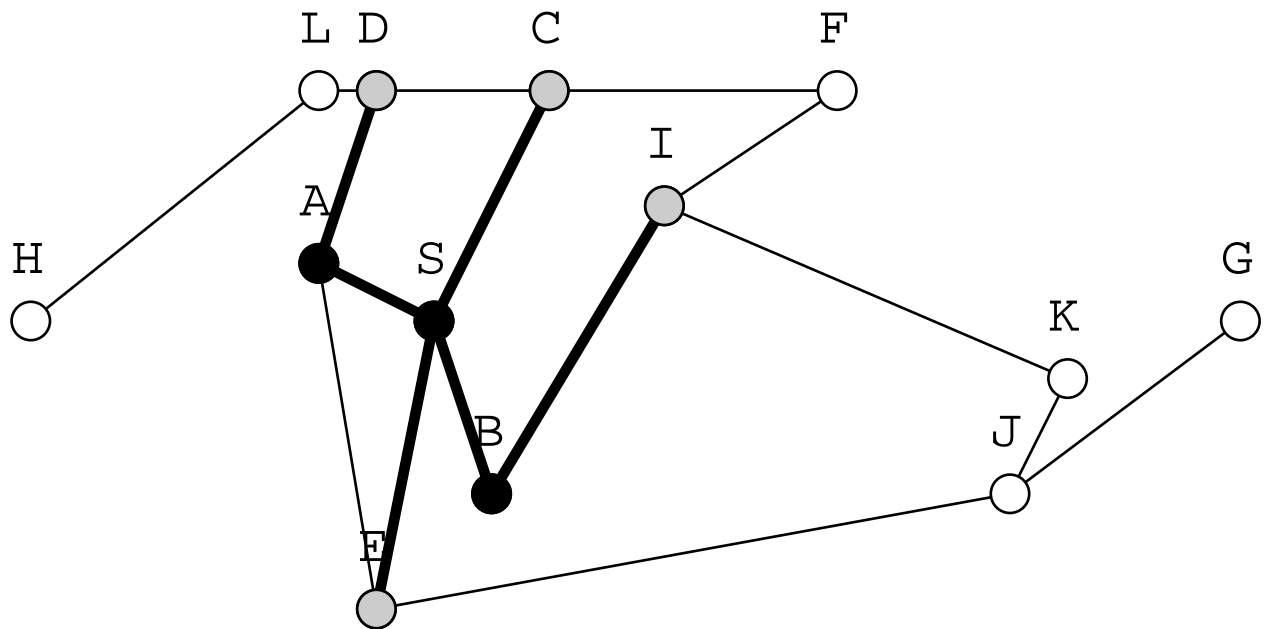
CLOSED list:
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search
Iteration 3



OPEN list:
  I: g= 9.0 h= 0.0 f= 9.0
  D: g= 5.4 h= 0.0 f= 5.4
  C: g= 4.5 h= 0.0 f= 4.5  <== expand
  E: g= 5.1 h= 0.0 f= 5.1

CLOSED list:
  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 4



OPEN list:
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0
  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1  <== expand

CLOSED list:
  C: g= 4.5 h= 0.0 f= 4.5
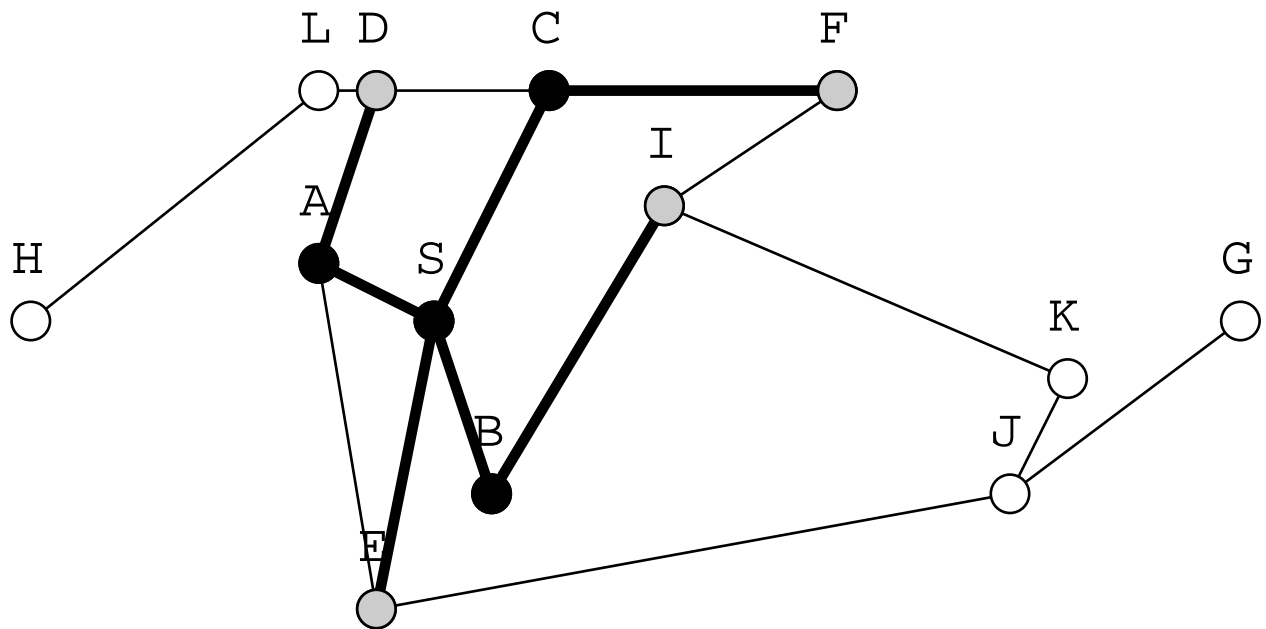  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 5



OPEN list:
  J: g=16.3 h= 0.0 f=16.3
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0
  D: g= 5.4 h= 0.0 f= 5.4  <== expand

CLOSED list:
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
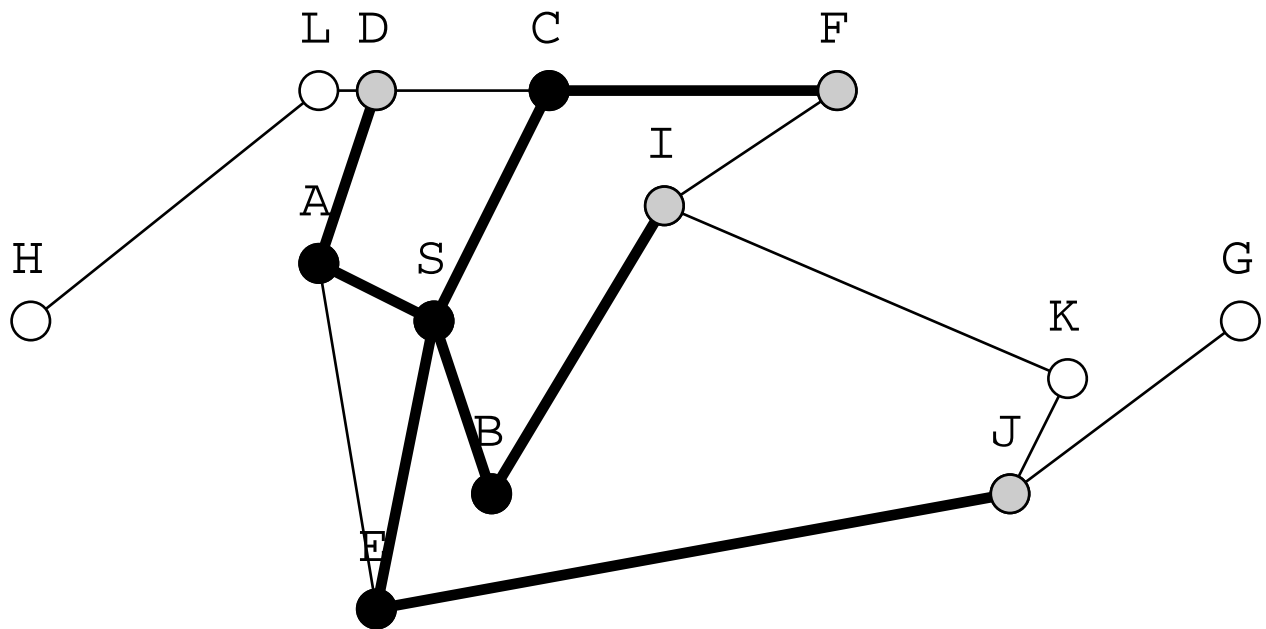  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 6



OPEN list:
  L: g= 6.4 h= 0.0 f= 6.4   <== expand
  J: g=16.3 h= 0.0 f=16.3
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0

CLOSED list:
  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
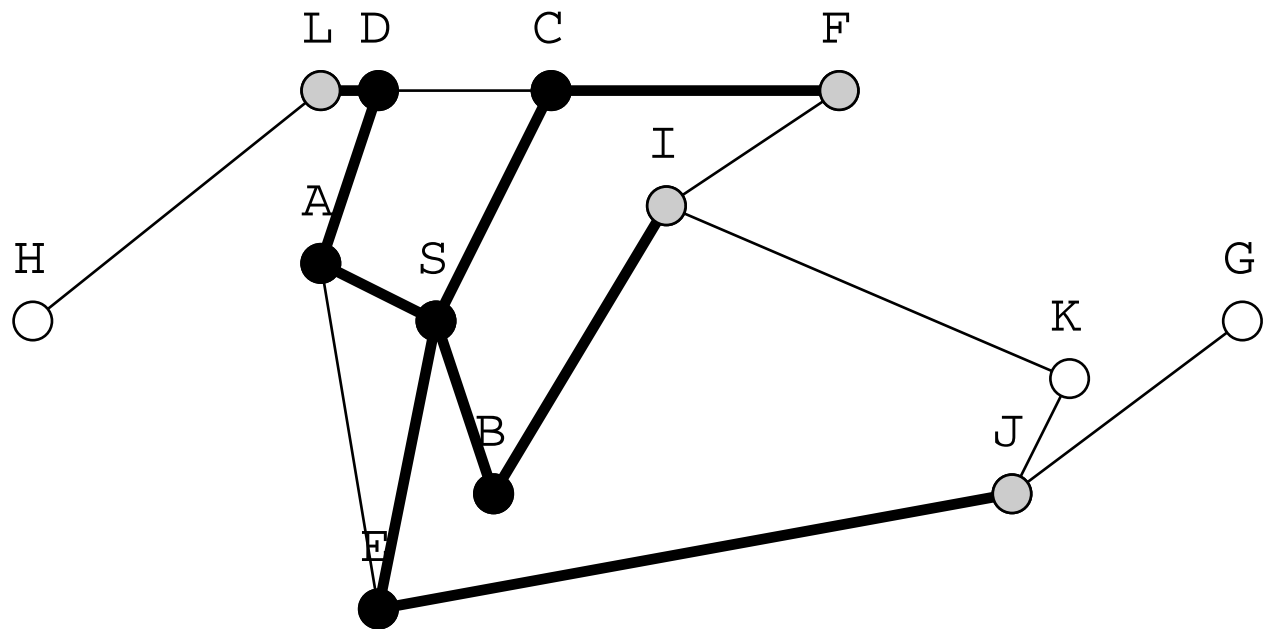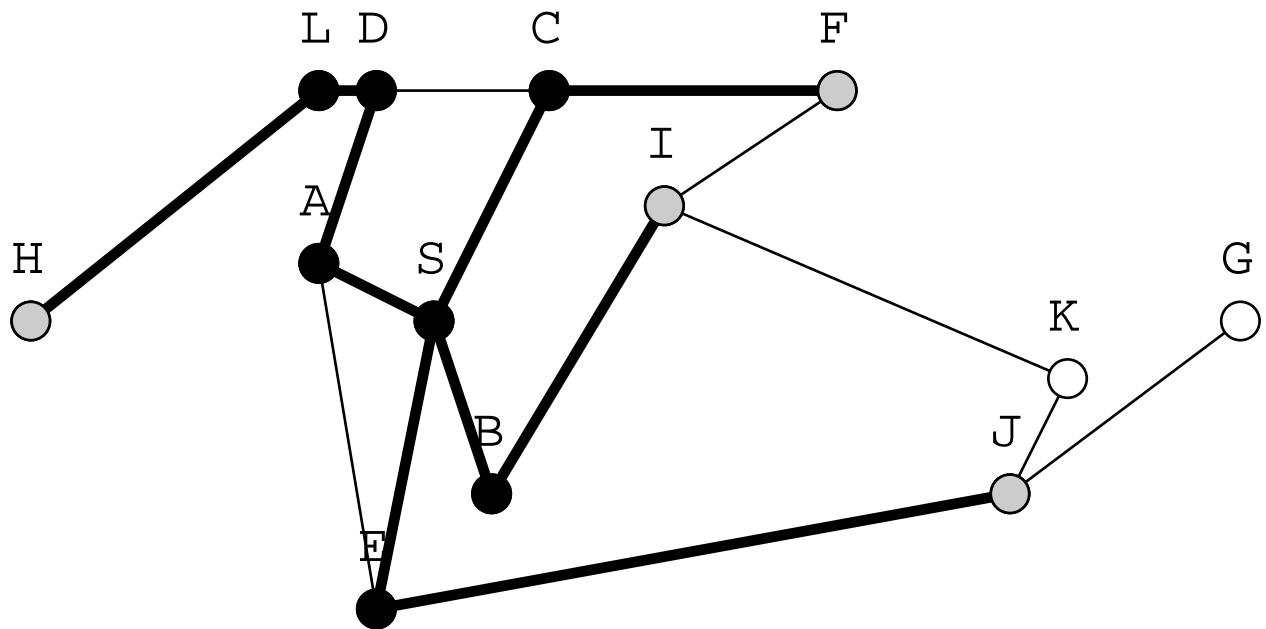  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 7



OPEN list:
  H: g=12.8 h= 0.0 f=12.8
  J: g=16.3 h= 0.0 f=16.3
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0  <== expand

CLOSED list:
  L: g= 6.4 h= 0.0 f= 6.4
  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
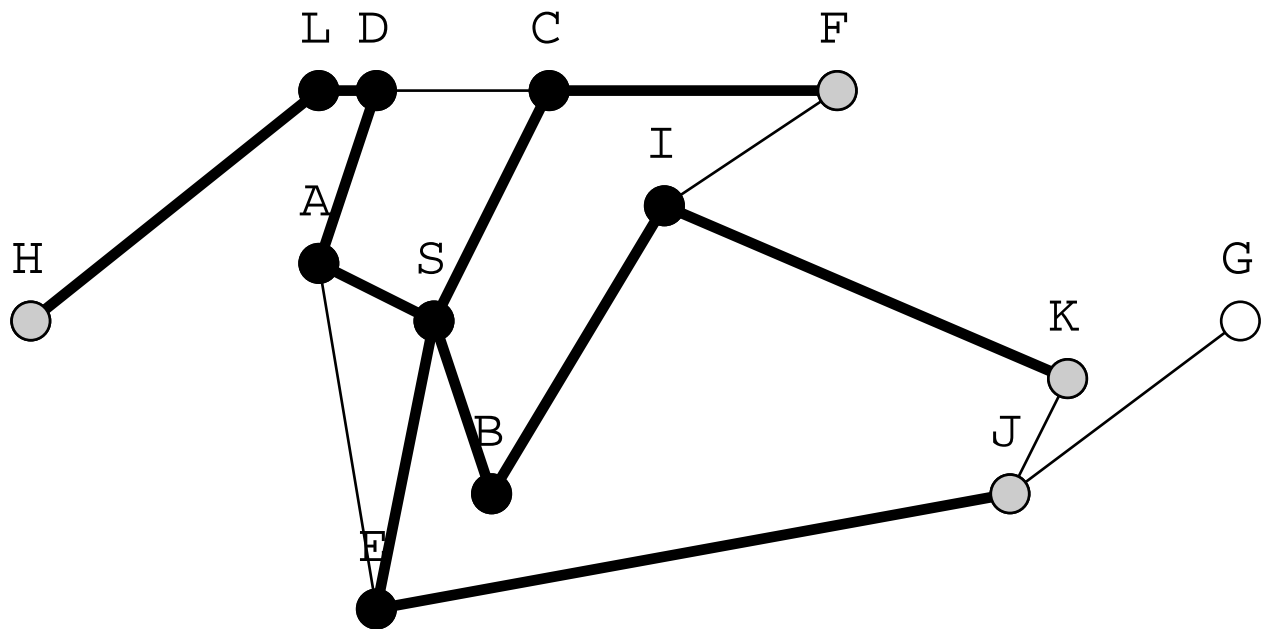  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

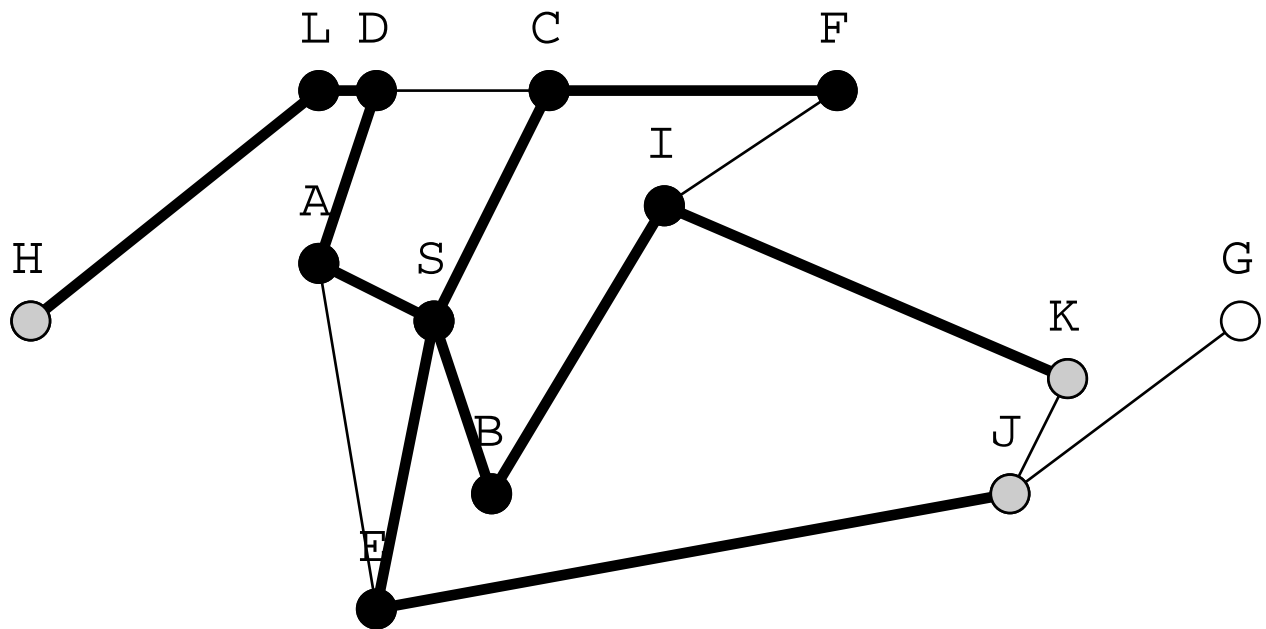Iteration 8



OPEN list:
  K: g=16.6 h= 0.0 f=16.6
  H: g=12.8 h= 0.0 f=12.8
  J: g=16.3 h= 0.0 f=16.3
  F: g= 9.5 h= 0.0 f= 9.5  <== expand

CLOSED list:
  I: g= 9.0 h= 0.0 f= 9.0
  L: g= 6.4 h= 0.0 f= 6.4
  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 9



OPEN list:
  K: g=16.6 h= 0.0 f=16.6
  H: g=12.8 h= 0.0 f=12.8   <== expand
  J: g=16.3 h= 0.0 f=16.3

CLOSED list:
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0
  L: g= 6.4 h= 0.0 f= 6.4
  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
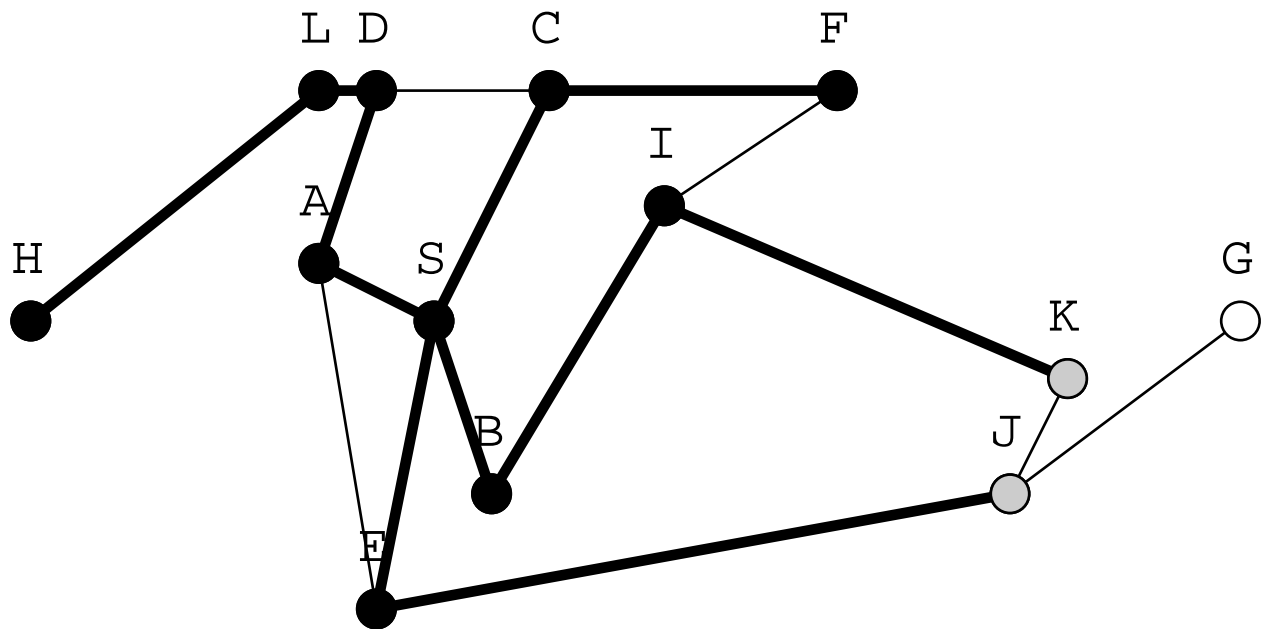  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 10



OPEN list:
  K: g=16.6 h= 0.0 f=16.6
  J: g=16.3 h= 0.0 f=16.3  <== expand

CLOSED list:
  H: g=12.8 h= 0.0 f=12.8
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0
  L: g= 6.4 h= 0.0 f= 6.4
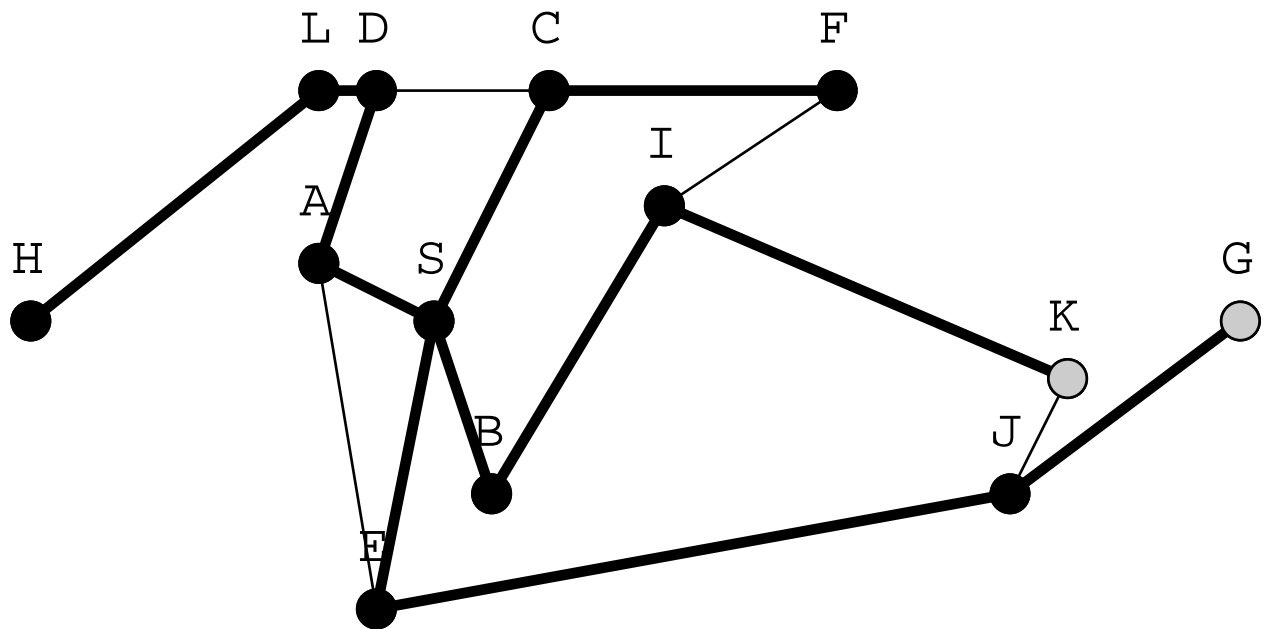  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 11



OPEN list:
  G: g=21.3 h= 0.0 f=21.3
  K: g=16.6 h= 0.0 f=16.6  <== expand

CLOSED list:
  J: g=16.3 h= 0.0 f=16.3
  H: g=12.8 h= 0.0 f=12.8
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0
  L: g= 6.4 h= 0.0 f= 6.4
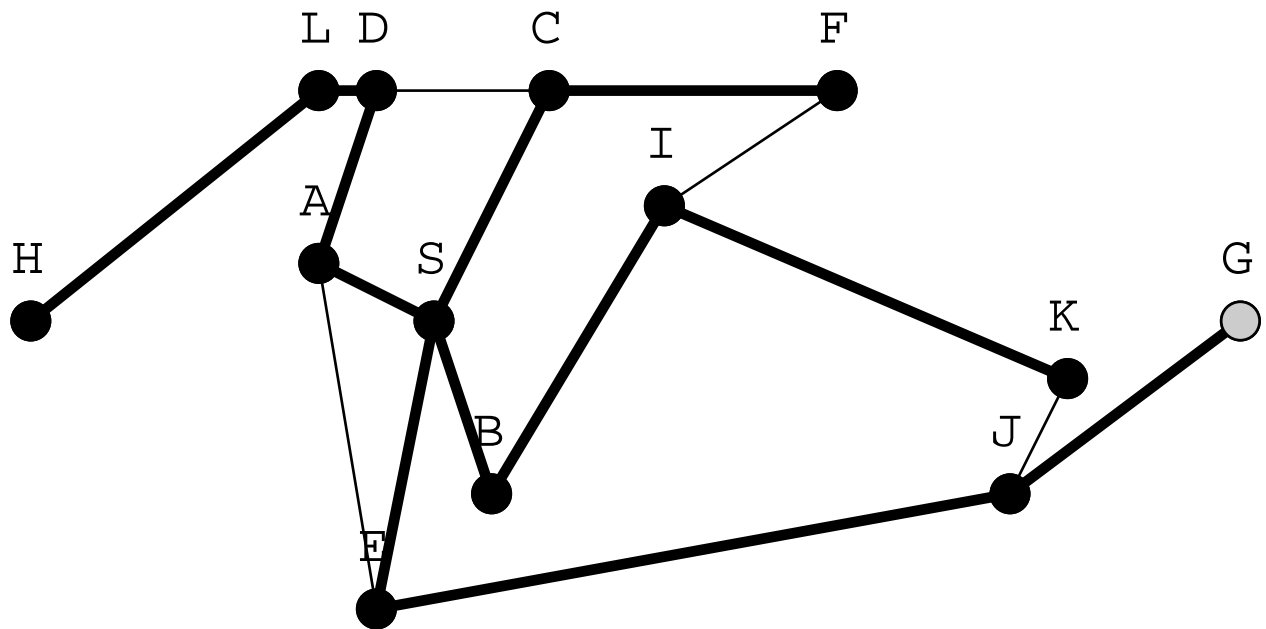  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0

Uniform cost search

Iteration 12



OPEN list:
  G: g=21.3 h= 0.0 f=21.3  <== expand

CLOSED list:
  K: g=16.6 h= 0.0 f=16.6
  J: g=16.3 h= 0.0 f=16.3
  H: g=12.8 h= 0.0 f=12.8
  F: g= 9.5 h= 0.0 f= 9.5
  I: g= 9.0 h= 0.0 f= 9.0
  L: g= 6.4 h= 0.0 f= 6.4
  D: g= 5.4 h= 0.0 f= 5.4
  E: g= 5.1 h= 0.0 f= 5.1
  C: g= 4.5 h= 0.0 f= 4.5
  B: g= 3.2 h= 0.0 f= 3.2
  A: g= 2.2 h= 0.0 f= 2.2
  S: g= 0.0 h= 0.0 f= 0.0