```
Breadth first path from (2,0) to (13, 18)
(2, 0) \rightarrow (2, 1) \rightarrow (2, 2) \rightarrow (2, 3) \rightarrow (2, 4) \rightarrow (2, 5) \rightarrow (2, 6) \rightarrow (2, 6)
7) -> (2, 8) -> (2, 9) -> (2, 10) -> (2, 11) -> (2, 12) -> (2, 13) -> (2, 14) -> (2, 15) -> (2, 16) -> (2, 17) -> (2, 18) -> (3, 18) -> (4, 18) -> (5, 18) -> (6, 18) -> (7, 18) -> (8, 18) -> (9, 18) -> (10, 18) -> (11, 18)
-> (12, 18) -> (13, 18)
Time: 45.4627 seconds
Cost of path: 94
Total moves: 29
XXSXXXXXXXXXXX
XX#XXXXXXXXXXXXX
XX#XXXXXXXXXXXXX
XX#XXXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#XXXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#XXXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#XX----XXXXX
XX#X----XXX
XX#XXX----XX
XX#XXXXXXX--XXX
XX#XXXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#XXXXXXXXXXXX
XX#########EF
XXXXXXXXXXXXF--
```

```
Euclidean path from (2,0) to (13, 18)
Path: (2,0) -> (2,1) -> (3,1) -> (3,2) -> (3,3) -> (4,3) -> (4,4) -> (4,5)
-> (5,5) -> (5,6) -> (5,7) -> (6,7) -> (6,8) -> (7,8) -> (7,9) -> (8,9) > (9,9) -> (10,9) -> (10,10) -> (11,10) -> (12,10) -> (12,11) -> (13,11)
> (13,12) -> (13,13) -> (13,14) -> (13,15) -> (13,16) -> (13,17) -> (13,18
Time: 0.0022797 seconds
Cost of path: 118
Total moves: 29
-FSF-----
-F##F-----
--F#F-----
--F##F-----
---F#F-----
---F##F-----
---F#F-----
 ---F##F----
 ----F##FFF----
 ----F####FF--
```

```
Uniform Cost Search from (2,0) to (13,18)
Path: (3,0) -> (4,0) -> (5,0) -> (6,0) -> (7,0) -> (8,0) -> (9,0) -> (10,0)
> (11,0) -> (11,1) -> (10,1) -> (9,1) -> (8,1) -> (8,2) -> (8,3) -> (7,3) ->
(6,3) \rightarrow (5,3) \rightarrow (5,4) \rightarrow (4,4) \rightarrow (4,5) \rightarrow (4,6) \rightarrow (3,6) \rightarrow (2,6) \rightarrow (2,7)
-> (1,7) -> (1,8) -> (1,9) -> (1,10) -> (1,11) -> (1,12) -> (2,12) -> (2,13) -> (3,13) -> (4,13) -> (5,13) -> (5,14) -> (6,14) -> (7,14) -> (7,15) -> (7,
16) -> (8,16) -> (9,16) -> (10,16) -> (11,16) -> (12,16) -> (13,16) -> (13,17
) -> (14,17) -> (14,18) -> (13,18)
Time: 0.0126368 seconds
Cost: 100
Moves: 50
-FS########FFF
F---FFF-####F-F
FF-FFFFF#FFF-F-
FFFFF####FF-FF-
FFFF##F-FF-F-FF
FFF#F-FFF-F-FF
FF###FFFFFF-FF
F##FFF-FFFFF-FF
F#FFFFF-F-FFF-F
#FFFFFFF-FF-F
F#FF----FF-F-
F#F-----FF-
F##FFF----FF
-F####FFFF--FFF
-FFFF###FFFFFFF
-F-FFF#FFFFFF
FF-FFF#######
--FF-F-FF-FFF##
--F-F-FFF-F-E#
```