هر دو برنامه به زبان جاوا ورژن 11.0.2 هستند.

پس از اجرای برنامه، لازم است مختصات دو خانه‌ی مبدا و مقصد به برنامه ورودی داده شود.

خروجی‌های الگوریتم UCS:

```
/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=50531:/Applications/IntelliJ IDEA CE
 .app/Contents/bin" -Dfile.encoding=UTF-8 -classpath "/Users/sarababaei/Desktop/Sara/Study/Programing/CS 97/AI/Homeworks/HW01/Codes/UCS/out/production/UCS" Main
Coordinates of beginning:
0 0
Coordinates of destination:
23 24
(0, 0) -> (0, 1) -> (0, 2) -> (0, 3) -> (0, 4) -> (0, 5) -> (0, 6) -> (0, 7) -> (0, 8) -> (0, 9) -> (0, 10) -> (0, 11) -> (0, 12) -> (0, 13) -> (0, 14) -> (0, 15) -> (0, 16) -> (0, 17) ->
 (0, 18) -> (0, 19) -> (0, 20) -> (0, 21) -> (0, 22) -> (0, 23) -> (1, 23) -> (2, 23) -> (3, 23) -> (3, 24) -> (4, 24) -> (5, 24) -> (6, 24) -> (7, 24) -> (8, 24) -> (9, 24) -> (10, 24)
 -> (11, 24) -> (12, 24) -> (13, 24) -> (14, 24) -> (15, 24) -> (16, 24) -> (17, 24) -> (18, 24) -> (19, 24) -> (20, 24) -> (21, 24) -> (22, 24) -> (23, 24)
Process finished with exit code 0
```

```
/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=50534:/Applications/IntelliJ IDEA CE
 .app/Contents/bin" -Dfile.encoding=UTF-8 -classpath "/Users/sarababaei/Desktop/Sara/Study/Programing/CS 97/AI/Homeworks/HW01/Codes/UCS/out/production/UCS" Main
Coordinates of beginning:
17 1
Coordinates of destination:
17 29
(17, 1) -> (18, 1) -> (19, 1) -> (20, 1) -> (21, 1) -> (22, 1) -> (22, 2) -> (22, 3) -> (22, 4) -> (23, 4) -> (24, 4) -> (24, 5) -> (24, 6) -> (24, 7) -> (24, 8) -> (24, 9) -> (24, 10) ->
 (24, 11) -> (24, 12) -> (24, 13) -> (24, 14) -> (24, 15) -> (24, 16) -> (24, 17) -> (24, 18) -> (24, 19) -> (24, 20) -> (24, 21) -> (24, 22) -> (24, 23) -> (24, 24) -> (24, 25) -> (24,
 26) -> (23, 26) -> (22, 26) -> (21, 26) -> (20, 26) -> (19, 26) -> (18, 26) -> (17, 26) -> (16, 26) -> (15, 26) -> (14, 26) -> (14, 27) -> (14, 28) -> (14, 29) -> (15, 29) -> (16, 29) ->
 (17, 29)
Process finished with exit code 0
```

خروجی‌های الگوریتم A^*:

```
/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=50519:/Applications/IntelliJ IDEA CE
 .app/Contents/bin" -Dfile.encoding=UTF-8 -classpath "/Users/sarababaei/Desktop/Sara/Study/Programing/CS 97/AI/Homeworks/HW01/Codes/AStar/out/production/AStar" Main
Coordinates of beginning:
0 0
Coordinates of destination:
23 24
(0, 0) -> (0, 1) -> (0, 2) -> (0, 3) -> (0, 4) -> (0, 5) -> (0, 6) -> (0, 7) -> (0, 8) -> (0, 9) -> (0, 10) -> (0, 11) -> (0, 12) -> (0, 13) -> (0, 14) -> (0, 15) -> (0, 16) -> (0, 17) ->
 (0, 18) -> (0, 19) -> (0, 20) -> (0, 21) -> (0, 22) -> (0, 23) -> (1, 23) -> (2, 23) -> (3, 23) -> (3, 24) -> (4, 24) -> (5, 24) -> (6, 24) -> (7, 24) -> (8, 24) -> (9, 24) -> (10, 24)
 -> (11, 24) -> (12, 24) -> (13, 24) -> (14, 24) -> (15, 24) -> (16, 24) -> (17, 24) -> (18, 24) -> (19, 24) -> (20, 24) -> (21, 24) -> (22, 24) -> (23, 24)
Process finished with exit code 0
```

```
/Library/Java/JavaVirtualMachines/jdk-11.0.2.jdk/Contents/Home/bin/java "-javaagent:/Applications/IntelliJ IDEA CE.app/Contents/lib/idea_rt.jar=50524:/Applications/IntelliJ IDEA CE
 .app/Contents/bin" -Dfile.encoding=UTF-8 -classpath "/Users/sarababaei/Desktop/Sara/Study/Programing/CS 97/AI/Homeworks/HW01/Codes/AStar/out/production/AStar" Main
Coordinates of beginning:
17 1
Coordinates of destination:
17 29
(17, 1) -> (18, 1) -> (19, 1) -> (20, 1) -> (21, 1) -> (22, 1) -> (22, 2) -> (22, 3) -> (22, 4) -> (23, 4) -> (24, 4) -> (24, 5) -> (24, 6) -> (24, 7) -> (24, 8) -> (24, 9) -> (24, 10) ->
 (24, 11) -> (24, 12) -> (24, 13) -> (24, 14) -> (24, 15) -> (24, 16) -> (24, 17) -> (24, 18) -> (24, 19) -> (24, 20) -> (24, 21) -> (24, 22) -> (24, 23) -> (24, 24) -> (24, 25) -> (24,
 26) -> (23, 26) -> (22, 26) -> (21, 26) -> (20, 26) -> (19, 26) -> (18, 26) -> (17, 26) -> (16, 26) -> (15, 26) -> (14, 26) -> (14, 27) -> (14, 28) -> (14, 29) -> (15, 29) -> (16, 29) ->
 (17, 29)
Process finished with exit code 0
```