



bengisu@bengisu-ubuntu: ~/Desktop/ödev8



```
bengisu@bengisu-ubuntu:~/Desktop/ödev8$ make
```

```
-----  
Cleaning...
```

```
-----  
Compiling...
```

```
-----  
Running the tests....
```

```
=====
```

Welcome to the 8-Puzzle Game!

Please select an option:

1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit

> 1

Puzzle Board:

```
1 5 7  
3 6 4  
_ 2 8
```

Enter your move (number-direction, e.g., 2-R): 2-U



Enter your move (number-direction, e.g., 2-R): 2-U

Puzzle Board:

```
1 5 7
3 2 4
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 2-U

Puzzle Board:

```
1 2 7
3 5 4
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 3-R

Puzzle Board:

```
1 2 7
5 3 4
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 3-R

Puzzle Board:

```
1 2 7
5 4 3
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 3-U

Puzzle Board:

```
1 2 3
5 4 7
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 5-L

5-L is an illegal move!!! Make a legal move!!!

Puzzle Board:

```
1 2 3
5 4 7
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 5-R

Puzzle Board:

```
1 2 3
4 5 7
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 6-R

Puzzle Board:

```
1 2 3
4 5 7
_ 6 8
```



Enter your move (number-direction, e.g., 2-R): 5-R

Puzzle Board:

```
1 2 3
4 5 7
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 6-R

Puzzle Board:

```
1 2 3
4 5 7
_ 8 6
```

Enter your move (number-direction, e.g., 2-R): 6-U

Puzzle Board:

```
1 2 3
4 5 6
_ 8 7
```

Enter your move (number-direction, e.g., 2-R): 7-L

Puzzle Board:

```
1 2 3
4 5 6
_ 7 8
```

Enter your move (number-direction, e.g., 2-R): 7-L

Puzzle Board:

```
1 2 3
4 5 6
7 _ 8
```

Enter your move (number-direction, e.g., 2-R): 8-L

Puzzle Board:

```
1 2 3
4 5 6
7 8 _
```

Congratulations! You finished the game.

Total number of moves: 10

Your score: 900

Welcome to the 8-Puzzle Game!

Please select an option:

1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit

> █

Welcome to the 8-Puzzle Game!

Please select an option:

1. Play game as a user
2. Finish the game with PC
3. Show the best score
4. Exit

> 1

Puzzle Board:

```
8 3 4
7 1 _
5 6 2
```

Enter your move (number-direction, e.g., 2-R): 1-L

Puzzle Board:

```
8 3 4
1 7 _
5 6 2
```

Enter your move (number-direction, e.g., 2-R): 1-U

Puzzle Board:

```
1 3 4
8 7 _
5 6 2
```

Enter your move (number-direction, e.g., 2-R): 2-U

Puzzle Board:

```
1 3 4
8 7 2
5 6 _
```

Enter your move (number-direction, e.g., 2-R): 2-U

Puzzle Board:

```
1 3 2
8 7 4
5 6 _
```

Enter your move (number-direction, e.g., 2-R): 2-L

Puzzle Board:

```
1 2 3
8 7 4
5 6 _
```

Enter your move (number-direction, e.g., 2-R): 4-L

Puzzle Board:

```
1 2 3
8 4 7
5 6 _
```

Enter your move (number-direction, e.g., 2-R): 4-L

Please select an option:

1. Play game as a user
  2. Finish the game with PC
  3. Show the best score
  4. Exit
- > 1

Puzzle Board:

```
_ 4 7
6 8 2
1 3 5
```

Enter your move (number-direction, e.g., 2-R): 1-U

Puzzle Board:

```
_ 4 7
1 8 2
6 3 5
```

Enter your move (number-direction, e.g., 2-R): 1-U

Puzzle Board:

```
1 4 7
_ 8 2
6 3 5
```

Enter your move (number-direction, e.g., 2-R): 2-L

Puzzle Board:

```
1 4 7
_ 2 8
6 3 5
```

Enter your move (number-direction, e.g., 2-R): 2-U

Puzzle Board:

```
1 2 7
_ 4 8
6 3 5
```

Enter your move (number-direction, e.g., 2-R): 3-R

Puzzle Board:

```
1 2 7
_ 4 8
6 5 3
```

Enter your move (number-direction, e.g., 2-R): 3-U

Puzzle Board:

```
1 2 7
_ 4 3
6 5 8
```

Enter your move (number-direction, e.g., 2-R):

Enter your move (number-direction, e.g., 2-R): 3-R

Puzzle Board:

```
1 2 7
_ 4 8
6 5 3
```

Enter your move (number-direction, e.g., 2-R): 3-U

Puzzle Board:

```
1 2 7
_ 4 3
6 5 8
```

Enter your move (number-direction, e.g., 2-R): 3-U

Puzzle Board:

```
1 2 3
_ 4 7
6 5 8
```

Enter your move (number-direction, e.g., 2-R): 4-L

Puzzle Board:

```
1 2 3
4 _ 7
6 5 8
```

Enter your move (number-direction, e.g., 2-R): 4-K

Please enter a valid direction(U-D-L-R)!

Enter your move (number-direction, e.g., 2-R): 5-U

Puzzle Board:

```
1 2 3
4 5 7
6 _ 8
```

Enter your move (number-direction, e.g., 2-R): 6-R

Puzzle Board:

```
1 2 3
4 5 7
_ 6 8
```

Enter your move (number-direction, e.g., 2-R): 6-R

Puzzle Board:

```
1 2 3
4 5 7
_ 8 6
```

Enter your move (number-direction, e.g., 2-R):



```
bengisu@bengisu-ubuntu:~/Desktop/ödev8$ make
```

```
-----  
Cleaning...
```

```
-----  
Compiling...
```

```
-----  
Running the tests....  
=====
```

```
Welcome to the 8-Puzzle Game!
```

```
Please select an option:
```

1. Play game as a user
  2. Finish the game with PC
  3. Show the best score
  4. Exit
- ```
> 2
```

```
Puzzle is unsolvable for the computer, please choose from the menu again.
```

```
Welcome to the 8-Puzzle Game!
```

```
Please select an option:
```

1. Play game as a user
  2. Finish the game with PC
  3. Show the best score
  4. Exit
- ```
> 2
```

```
1 2 3
4 5 6
7 _ 8
```

Illegal Move: 4 L

Puzzle Board:

```
1 2 3
4 5 6
7 _ 8
```

Illegal Move: 8 R

Puzzle Board:

```
1 2 3
4 5 6
7 _ 8
```

Computer Move: 4-U

Puzzle Board:

```
4 2 3
1 5 6
7 _ 8
```

Computer Move: 1-U

Puzzle Board:

```
1 2 3
4 5 6
7 _ 8
```

Computer Move: 0-R

Puzzle Board:

```
1 2 3
4 5 6
7 8 _
```

Computer finished the game

Total number of computer moves: 87440

Welcome to the 8-Puzzle Game!

Please select an option:

1. Play game as a user
  2. Finish the game with PC
  3. Show the best score
  4. Exit
- > 4

Program terminated...

=====

Completed tests....

bengisu@bengisu-ubuntu: ~/Desktop/ödev8\$