OUTPUTS:

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

Enter your move (number-direction,e.g.,2-R): 8-r
Invalid input.Please try again...
Enter your move (number-direction,e.g.,2-R): 8-R

4 5 6
2 8 3
1 _ 7

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

4 5 6
2 _ 3
1 8 7

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

4 5 6
_ 2 3
1 8 7

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

4 5 6
1 2 3
_ 8 7

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

1 5 6
4 2 3
_ 8 7

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

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

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

1 2 3
4 5 6
_ 8 7

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

1 2 3
4 5 6
_ 7 8

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

1 2 3
4 5 6
7 _ 8

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

1 2 3
4 5 6
7 8 _

Congratulations! You finished the game.
Total number of moves : 10
Your Score : 900
```

```
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
> 3
The best score is 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
> 1
_ 3 8
6 4 7
1 2 5

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

_ 3 8
1 4 7
6 2 5

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

1 3 8
_ 4 7
6 2 5
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Enter your move (number-direction,e.g.,2-R): 6-U

1 2 3
4 5 6
7 8 _

Congratulations! You finished the game.
Total number of moves : 13
Your Score : 870
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
> 3
The best score is 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
> 2
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```
Computer move: 3-U
1 5 2
4 3 6
7 8 _

Computer move: 3-U
1 3 2
4 5 6
7 8 _

Computer move: 3-R
1 2 3
4 5 6
7 8 _

The board is solved!
1 2 3
4 5 6
7 8 _

Total number of computer moves : 124575
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 ...
========================================================================
```

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