Below you see the initial scores.txt with four entries in descending order by score.

I play and score nothing. I am prompted for the name. I type: Hibbert.
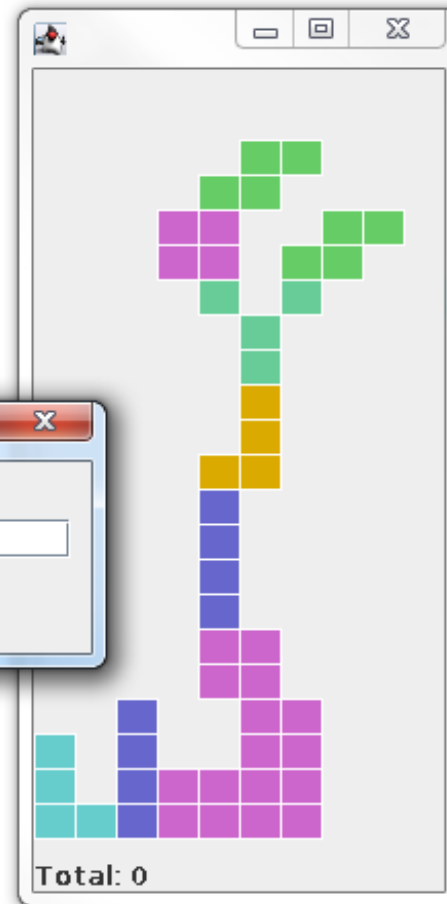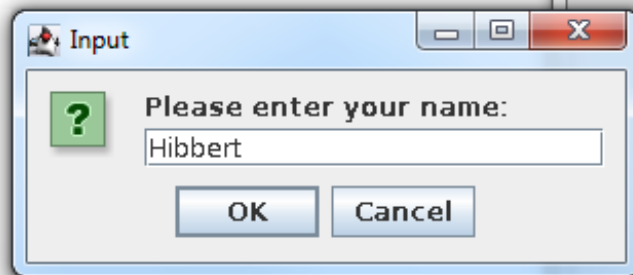
```
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Jake 3
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS:
Game over!
```

Input

Please enter your name:

Hibbert

OK   Cancel

Total: 0

You should notice the Y shape on top of a mirrored L shape below a Square shape and an S shape.

Once I type Hibbert I press OK, at which point my game ends.
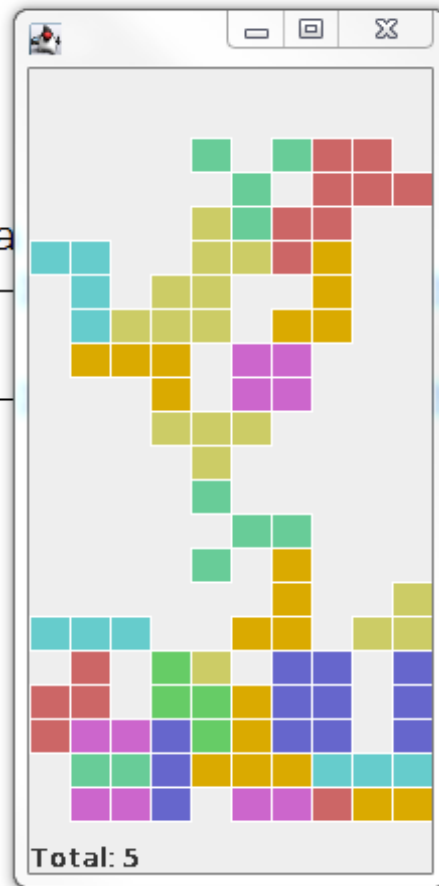
I am being shown my final score: (Hibbert, 0)

I am also shown all scores, in order, in the array list that I have created.

From the prompt I look at the file: Hibbert is at the bottom with 0 points.

```
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Jake 3
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS: -Xms512m -Xmx512m
Game over!
(Hibbert:0)
[(Adrian:18), (Jake:15), (Jason:12), (Jake:3), (Hibbert:0)]
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Jake 3
Hibbert 0
-bash-4.1$ 
```

I decide to play again.

```
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Jake 3
Hibbert 0
-bash-4.1$ javac Game.java
Picked up _JAVA_OPTIONS: -
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS: -
Game over!
```

Input

? Please enter your name:

Ariza

OK   Cancel

Total: 5

This time I do better (I score a 5).

Two Y shapes can be seen in the game above.

When prompted for the name I type: Ariza.

The program ends, after showing my final score and the new classification. When I check, the file scores.txt has been updated:

```
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Jake 3
Hibbert 0
-bash-4.1$ javac Game.java
Picked up _JAVA_OPTIONS: -Xms512m -Xmx512m
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS: -Xms512m -Xmx512m
Game over!
(Ariza:5)
[(Adrian:18), (Jake:15), (Jason:12), (Ariza:5), (Jake:3), (Hibbert:0)]
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Ariza 5
Jake 3
Hibbert 0
-bash-4.1$ █
```

I decide to play one more time.

```
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Ariza 5
Jake 3
Hibbert 0
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS:
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS:
Game over!
```
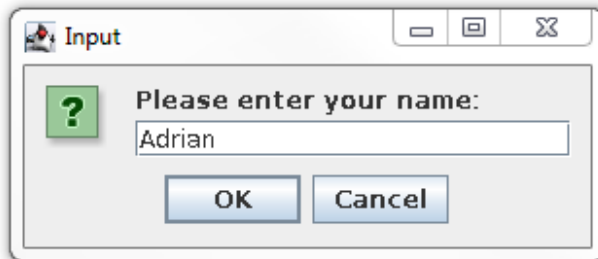

I again score a 5.

This time I sign Adrian (which is lexicographically ahead of Ariza).

When I press OK the game ends, printing my final score and the updated classification.

From the Unix shell prompt I cat the scores.txt file.

Notice my placement:

```
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Ariza 5
Jake 3
Hibbert 0
-bash-4.1$ java Game
Picked up _JAVA_OPTIONS: -Xms512m -Xmx512m
Game over!
(Adrian:5)
[(Adrian:18), (Jake:15), (Jason:12), (Adrian:5), (Ariza:5), (Jake:3), (Hibbert:0)]
-bash-4.1$ cat scores.txt
Adrian 18
Jake 15
Jason 12
Adrian 5
Ariza 5
Jake 3
Hibbert 0
-bash-4.1$ █
```

If you're not sure how to read from/write to files, your text has all the info on pp. 318-320.