```
[kianz001@empress cs111]$ g++ array.cpp
[kianz001@empress cs111]$ ./a.out
----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 1

Enter a number: 10
Enter a number: 8
Enter a number: 16
Enter a number: 40
Enter a number: 5

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 4

The average number is 15.8

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 5

The highest number is 40

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 7

Slot 0: *
Slot 1:
Slot 2: *
Slot 3: ****
Slot 4:

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 6

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 2

The numbers in the array are 20 16 32 80 10

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 7

Slot 0: **
Slot 1: *
Slot 2: ***
Slot 3: ********
Slot 4: *

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 10

Enter the key: 20

20 was found at index 0.

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 10

Enter the key: 30

30 was not found.

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 8

----------------------------------------------------------------------
1) fill 2) print 3) reverse 4) average 5) highest 6) double 7) bar graph 8) selection sort ascending 9) selection sort descending 10) sequential search 13) quit
----------------------------------------------------------------------
Enter your choice: 2

The numbers in the array are 10 16 20 32 80
```