

[1] Create List

```
"C:\Users\jacob\Downloads\C" X + v
[1] Create List
[2] Display List
[3] Heap Sort
[4] Exit
Enter your choice: 1

List Created

List:  48  48  3  84  38  20  55  22  48  47

Please enter any key to continue|
```

[2] Display List

```
"C:\Users\jacob\Downloads\C" X + v
[1] Create List
[2] Display List
[3] Heap Sort
[4] Exit
Enter your choice: 2

List:  48  48  3  84  38  20  55  22  48  47

Please enter any key to continue|
```

[3] Heap Sort

```
"C:\Users\jacob\Downloads\C X + v

[1] Create List
[2] Display List
[3] Heap Sort
[4] Exit
Enter your choice: 3

Pass 0:
List:  55  48  38  48  47  3  20  22  48  84

Pass 1:
List:  48  48  38  48  47  3  20  22  55  84

Pass 2:
List:  48  48  38  22  47  3  20  48  55  84

Pass 3:
List:  48  47  38  22  20  3  48  48  55  84

Pass 4:
List:  47  22  38  3  20  48  48  48  55  84

Pass 5:
List:  38  22  20  3  47  48  48  48  55  84

Pass 6:
List:  22  3  20  38  47  48  48  48  55  84

Pass 7:
List:  20  3  22  38  47  48  48  48  55  84

Pass 8:
List:   3  20  22  38  47  48  48  48  55  84

Sorted Data
List:   3  20  22  38  47  48  48  48  55  84

Please enter any key to continue|
```

[4] Exit

```
"C:\Users\jacob\Downloads\C X + v

[1] Create List
[2] Display List
[3] Heap Sort
[4] Exit
Enter your choice: 4
Exiting program
Process returned 0 (0x0)   execution time : 101.313 s
Press any key to continue.
|
```

[2] Display List (No List)

```
"C:\Users\jacob\Downloads\C X + v

[1] Create List
[2] Display List
[3] Heap Sort
[4] Exit
Enter your choice: 2

List is empty. Create List first
Please enter any key to continue|
```

[3] Heap Sort (No List)

```
"C:\Users\jacob\Downloads\C X + v

[1] Create List
[2] Display List
[3] Heap Sort
[4] Exit
Enter your choice: 3

List is empty. Create List first
Please enter any key to continue|
```