**Test Cases:**

Heap Sort

* Inputs: 100
* Numbers: 1-100
* Function: insert
* Reason: Initial Test
* Worked? Yes

Heap Sort:

* Inputs: 10000
* Numbers: 1-10000
* Function: insert
* Reason: Medium Numbers Test
* Worked? Yes

Heap Sort:

* Inputs: 1000000
* Numbers: 1 – 1000000
* Function: insert
* Reason: High Numbers Test
* Worked? Yes

Heap Sort:

* Inputs: 1000000
* Numbers: Random
* Function: insert
* Reason: Random Numbers Test
* Worked? Yes

Heap Sort:

* Inputs: 10000
* Numbers: Random
* Function: sort
* Reason: Random Numbers Test
* Worked? Yes

Heap Sort:

* Inputs: 1
* Letter: “a”
* Function: insert
* Reason: Invalid Input Test
* Worked? No

First Pivot:

* Inputs: 100
* Numbers: 1-100
* Function: insert
* Reason: Initial Test
* Worked? Yes

First Pivot:

* Inputs: 10000
* Numbers: 1-10000
* Function: insert
* Reason: Medium Numbers Test
* Worked? Yes

First Pivot:

* Inputs: 1000000
* Numbers: 1 – 1000000
* Function: insert
* Reason: High Numbers Test
* Worked? Yes

First Pivot:

* Inputs: 1000000
* Numbers: 1 – 1000000
* Function: sort
* Reason: High Numbers Test
* Worked? Yes

First Pivot:

* Inputs: 1
* Letter: “a”
* Function: insert
* Reason: Invalid Input Test
* Worked? No

First Pivot:

* Inputs: 10000
* Numbers: Random
* Function: insert
* Reason: Random Numbers Test
* Worked? Yes

Random Pivot:

* Inputs: 100
* Numbers: 1-100
* Function: insert
* Reason: Initial Test
* Worked? Yes

Random Pivot:

* Inputs: 10000
* Numbers: 1-10000
* Function: insert
* Reason: Medium Numbers Test
* Worked? Yes

Random Pivot:

* Inputs: 1000000
* Numbers: 1 – 1000000
* Function: insert
* Reason: High Numbers Test
* Worked? Yes

Random Pivot:

* Inputs: 1000000
* Numbers: 1 – 1000000
* Function: sort
* Reason: High Numbers Test
* Worked? Yes

Random Pivot:

* Inputs: 1
* Letter: “a”
* Function: insert
* Reason: Invalid Input Test
* Worked? No

Random Pivot:

* Inputs: 10000
* Numbers: Random
* Function: insert
* Reason: Random Numbers Test
* Worked? Yes