

COMPARISON 1 :

```
givenArray = [58,27,32,44,10,21,46,7,19]
```

```
[7, 10, 19, 21, 27, 32, 44, 46, 58]  
Swap number for quick sort : 11  
[7, 10, 19, 21, 27, 32, 44, 46, 58]  
Swap number for insertion sort : 25
```

COMPARISON 2 :

```
givenArray = [58,27,32,44,10,21,46,7,19,71,201,2]
```

```
[2, 7, 10, 19, 21, 27, 32, 44, 46, 58, 71, 201]  
Swap number for quick sort : 23  
[2, 7, 10, 19, 21, 27, 32, 44, 46, 58, 71, 201]  
Swap number for insertion sort : 36
```

COMPARISON 3 :

```
givenArray = [94,16,124,2234,14234,45,1]
```

```
[1, 16, 45, 94, 124, 2234, 14234]  
Swap number for quick sort : 8  
[1, 16, 45, 94, 124, 2234, 14234]  
Swap number for insertion sort : 11
```

COMPARISON 4 :

```
givenArray = [10,9,8,7,6,5,4,3,2,1]
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
Swap number for quick sort : 29  
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
Swap number for insertion sort : 45
```

COMPARISON 5 :

```
givenArray = [1,2,3,4,5,6,7,8,9,10]
```

```
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
Swap number for quick sort : 54  
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10]  
Swap number for insertion sort : 0
```

COMPARISON 6 :

```
givenArray = [24,51,29,373,84,45,65]
```

```
[24, 29, 45, 51, 65, 84, 373]  
Swap number for quick sort : 11  
[24, 29, 45, 51, 65, 84, 373]  
Swap number for insertion sort : 7
```

COMPARISON 7 :

```
givenArray = [15,243,584,192,1862,643,153]
```

```
[15, 153, 192, 243, 584, 643, 1862]  
Swap number for quick sort : 7  
[15, 153, 192, 243, 584, 643, 1862]  
Swap number for insertion sort : 8
```

COMPARISON 8 :

```
givenArray = [24,16,34,21,24,571,632]
```

```
[16, 21, 24, 24, 34, 571, 632]  
Swap number for quick sort : 19  
[16, 21, 24, 24, 34, 571, 632]  
Swap number for insertion sort : 4
```

COMPARISON 9 :

```
givenArray = [364,220,207,69,407,88,313,145,429]
```

```
[69, 88, 145, 207, 220, 313, 364, 407, 429]  
Swap number for quick sort : 20  
[69, 88, 145, 207, 220, 313, 364, 407, 429]  
Swap number for insertion sort : 17
```

COMPARISON 10 :

```
givenArray = [235,383,436,63,19,90,22]
```

```
[19, 22, 63, 90, 235, 383, 436]  
Swap number for quick sort : 8  
[19, 22, 63, 90, 235, 383, 436]  
Swap number for insertion sort : 15
```

In 10 comparison, generally quick sort is faster.