

```
Time taken (quick sort): 4.5432 seconds
```

```
0 0 1 1 1 2 3 3 4 4 6 6 6 6 7 9 12 12 12 15 :
```

```
Time taken (selection sort): 8.7872 seconds
```

```
0 0 1 1 1 2 3 3 4 4 6 6 6 6 7 9 12 12 12 15 :
```

```
BUILD SUCCESSFUL (total time: 0 seconds)
```

Using the same array for both sorting algorithms, we can clearly see that Quick sort is faster than Selection sort since Quick sort splits the current array into smaller arrays that we check separately while Selection sort checks every individual element remaining in the array.