

Table 1: Computations

LENGTH	OPERATION	FREQUENCY	NOTES
c_a	<code>data.length</code>		
c_b	<code>final int n =</code>		
c_c	<code>int i=1</code>		
c_d	<code>i<n</code>		
c_e	<code>++i</code>		
c_f	<code>data[i]</code>		
c_g	<code>final long temp =</code>		
c_h	<code>int j=i</code>		
c_i	<code>j>=1 && temp<data[j-1]</code>		
c_j	<code>--j</code>		
c_k	<code>data[j] = data[j-1]</code>		
c_l	<code>data[j] = temp</code>		

A Version of Insertion Sort:

```

1  public static void
2  insertionSort(long [] data)
3      {
4      final int n = data.length ;
5      for (int i=1;i<n;++i)
6          {
7          final long temp = data[i] ;
8          for (int j=i; j>=1 && temp<data[j-1]; --j)
9              {
10             data[j] = data[j-1] ;
11             }
12         data[j] = temp ;
13     }
14 }

```
