

```
insertionSort (int [] array) {
  for (i=1; i < array.length; i++) {
```

<u>i</u>	<u>j</u>	<u>temp</u>
1	1	8
2	0	14
3	2	95
4	1	24
	4	
	3	
	3	

```
    temp = array[i];
    j = i;
    while (j > 0 && (array[j-1] > temp)) {
      array[j] = array[j-1];
      j--;
    }
    array[j] = temp;
```

0	1	2	3	4
8	14	22	24	95

↑

```

Object[] runSort (SortType, arrayType, size, num) {
    TestTimes tt = new TestTimes();
    Object[] objects = new Object[num*2+1];
    for (i=0; i < num; i++) {
        int[] array = createArray (arrayType, size);
        objects[i*2] = copy of array;
        start time;
        run the correct sort;
        end time;
        tt.add Test Time (end time - start time);
        objects[i*2+1] = copy of sorted array;
    }
    objects[objects.length-1] = tt;
    return objects;
}
}

```