

Trace the following program .

```
public class sorting_algorithms_handout
{
    public static void main(String[] args)
    {
        int[] nums2 = {3, 6, 5, 1, 9, 2, 4, 0, 8, 7};
        insertionSort(nums2);
    }

    public static void insertionSort(int[] arr)
    {
        int j = 0;

        for (int i = 1; i < arr.length; i++)
        {
            int value = arr[i];
            j = i;

            while (j > 0 && arr[j - 1] >= value)
            {
                arr[j] = arr[j - 1];    // shift
                j--;
            }

            arr[j] = value;              // insert
        }
    }
}
```

arr									
0	1	2	3	4	5	6	7	8	9

<u>i</u>	<u>value</u>	<u>j</u>
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