

## Writing a program in Java implementing the insertion sort algorithm

```
package P5;

public class insertionSort {

    public static void main(String[] args) {

        int[] arr = { 9, 12, 3, 21, 44 };
        insertionSort(arr);
        for (int i = 0; i < arr.length; i++) {

            System.out.println(arr[i]);

        }

    }

    public static void insertionSort(int[] arr) {

        int len = arr.length;
        for (int j = 1; j < len; j++) {
            int key = arr[j];
            int i = j - 1;
            while ((i > -1) && (arr[i] > key)) {

                arr[i + 1] = arr[i];
                i--;
            }
            arr[i + 1] = key;
        }

    }

}
```

