

Insertion Sort

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public class InsertionSort {  
    public static void sort(int[] arr) {  
        for (int i = 1; i < arr.length; i++) {  
            // Take the next item to insert into the sorted part of the array  
            int temp = arr[i];  
            int j = i - 1;  
  
            // to one position ahead of their current position  
            while (j >= 0 && arr[j] > temp) {  
                arr[j + 1] = arr[j];  
                j--;  
            }  
            // Place the current element at its correct position  
            arr[j + 1] = temp;  
        }  
    }  
  
    public static void main(String[] args) {  
        int[] array = {9, 5, 1, 4, 3};  
        sort(array);  
        System.out.println("Sorted array:");  
        for (int num : array) {  
            System.out.print(num + " ");  
        }  
    }  
}
```

Output→1,3,4,5,9