

SORT BY JAVA

➤ BUBBLE SORT:

```
for(int i=0;i<arr.length-1;i++){  
    for(int j=i+1;j<= arr.length-1;j++){  
        if(arr[i] > arr[j]){  
            int temp = arr[i];  
            arr[i] = arr[j];  
            arr[j] = temp;  
        }  
    }  
}
```

➤ SELECTION SORT:

```
public static void selectionSort(double[] list) {  
  
    for (int i = list.length - 1; i >= 1; i--){  
  
        // Find the maximum in the list[0..i]  
  
        double currentMax = list[0];  
  
        int currentMaxIndex = 0;  
  
        for (int j = 1; j <= i; j++) {  
  
            if (currentMax < list[j]) {  
  
                currentMax = list[j];  
  
                currentMaxIndex = j;  
  
            }  
  
        }  
  
        // Swap list[i] with list[currentMaxIndex] if necessary;
```

```
if (currentMaxIndex != i) {  
    list[currentMaxIndex] = list[i];  
    list[i] = currentMax;  
}  
}  
}  
}
```

➤ **INSERTION SORT:**

```
public static void insertionSort(double[] list) {  
    for (int i = 1; i < list.length; i++) {  
        /** insert list[i] into a sorted sublist list[0..i-1] so that  
         * list[0..i] is sorted. */  
        double currentElement = list[i];  
        int k;  
        for (k = i - 1; k >= 0 && list[k] > currentElement; k--) {  
            list[k + 1] = list[k];  
        }  
        // Insert the current element into list[k+1]  
        list[k + 1] = currentElement;  
    }  
}
```

-- Hết ---