

```

public class Bubblesort {

    public static void main(String[] args) {

        //bubble sort
        int i, j,t=0;
        int a[]= {2,8,-3,6,9,4,89,45,21};
        int n=a.length;
        // -3,2,4,6,8,9,21,45,89
        for(i = 0; i <n; i++){
            for(j = 1; j < (n-i); j++){
                if(a[j-1] > a[j]){
                    t = a[j-1];
                    a[j-1]=a[j];
                    a[j]=t;
                }
            }
        }

        //insertion sort
        for(i=1;i<n;i++){
            for(j=i; j>0;j--){
                if(a[j]<a[j-1]){
                    t=a[j];
                    a[j]=a[j-1];
                    a[j-1]=t;
                }
                else break;
            }
        }
    }
}

```

```
//selection sort
int minindex;
int []niz = {2,5,3,7,9,15,8,32};
for (i=0; i<niz.length; i++){
    minindex=i;
    for(j=i+1;j<niz.length; j++){
        if (niz[minindex]> niz[j])
            minindex=j;
    }
    if(i!=minindex){
        j=niz[minindex];
        niz[minindex]=niz[i];
        niz[i]=j;
    }
}
for (i=0;i<niz.length;i++)
    System.out.println(niz[i]);
```

```
}
```

```
}
```