Exercise 1: find the max element in an array

23	65	12	87	12	343	098	12	76	312

Input:

1. **Pre-Condition:**

   Int a[] ={23,65,12,87,12,343,098,12,76,312} - I give input set values in an array

2. **Post-Condition:**
   Initialize value – int max = a[0];
3. **Loop variant:**
   Using for loop – for(i=0;i>max.length;i+1)
4. **Loop invariant:**
   Condition check - If(a[i]>max)
   Max=a[i]

   Pseudocode:

   Class Maximumvalue

   int a[10] = {23,65,12,87,12,343,98,12,76,312};
   int max = a[0];
    for (i = 0; i < max.length; i++)
    if(a[i]>max)
   max = a[i];

   Return max;

Exercise 2: Move zeroes to the end of Array

Pre-Condition:

Using array variable - Int arr[].count=0;

Loop variant:

For(i=0;i<arr.length;i++) initialize i=0; condition i<arr.length, Increment i++

Loop invariant:

Using array index (if condition)

If(arr[i]>0)

Arr[count++]=a[i]

Using while loop (count<arr.length)

Arr[count++]

Pseudocode:

```
Int arr[].count=0;
For(i=0;i<arr.length;i++)
If(arr[i]>0)
Arr[count++]=a[i]
 while  (count<arr.length)
Arr[count++]
```