

# Largest and Second Largest

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Date

i) WAP to find the Largest and Second Largest.

Program:-

```
package Array Programming;  
public class P33 {  
    public static void main (String[] args) {  
        int [] a = { 4, 7, 1, 5, 8 };  
        int large = a[0], slarge = a[1];  
        for (int i=0; i<a.length; i++) {  
            if ( a[i] > large ) {  
                slarge = large;  
                large = a[i];  
            }  
        }  
        System.out.println ("Largest: " + large);  
        System.out.println ("Second Largest: " + slarge);  
    }  
}
```

Op:-> Largest : 8  
Second Largest : 7

```

2) package Array Programming;
public class P34 {
    public static void main (String[] args) {
        int [] a = { 4, 17, 1, 5, 8 };
        int large = a[0], slarge = a[1];
        for (int i = 0; i < a.length; i++) {
            if (a[i] > large) {
                slarge = large;
                large = a[i];
            }
        }
        System.out.println ("Largest: " + large);
        System.out.println ("Second Largest: " + slarge);
    }
}

```

o/p: → Largest: 17

② Second Largest: 4

```

3) package Array Programming;
   public class P35 {
   public static void main (String[] args) {
       int [] a = { 4, 17, 1, 5, 8 };
       int large = a[0], slarge = a[1];
       for (int i=0; i<a.length; i++) {
           if ( a[i] > large ) {
               slarge = large;
               large = a[i];
           } else if ( a[i] > slarge ) {
               slarge = a[i];
           }
       }
       System.out.println ("Largest: " + large);
       System.out.println ("Second Largest: " + slarge);
   }
}

```

o/p: → Largest: 17  
 second Largest: 8



```

4) package Array Programming;
   public class P36 {
   public static void main (String [] args) {
       int [] a = { 4, 7, 11, 5, 8 };
       int large = a[0], slarge = a[1];
       for (int i = 0; i < a.length; i++) {
           if (a[i] > large) {
               slarge = large;
               large = a[i];
           } else if (a[i] > slarge) {
               slarge = a[i];
           }
       }
       System.out.println ("Largest: " + large);
       System.out.println ("Second Largest: " + slarge);
   }
}

```

o/p! → Largest: 11

second Largest: 8

```

5) package Array Programming ;
   public class P37 {
   public static void main (String [] args) {
       int [] a = { 4, 7, 11, 5, 11, 8 };
       int large = a[0], slarge = a[1];
       for (int i=0; i<a.length; i++) {
           if ( a[i] > large ) {
               slarge = large;
               large = a[i];
           } else if ( a[i] > slarge ) {
               slarge = a[i];
           }
       }
       System.out.println ("Largest: " + large);
       System.out.println ("second Largest: " + slarge);
   }
}

```

oio> Largest: 11  
 Second Largest: 11

```

5) package ArrayProgramming;
   public class P38 {
       public static void main (String[] args) {
           int [] a = { 4, 7, 11, 5, 11, 8 };
           int large = a[0], slarge = a[1];
           for (int i=0; i<a.length; i++) {
               if ( a[i] > large ) {
                   slarge = large;
                   large = a[i];
               } else if ( a[i] > slarge & a[i] != large ) {
                   slarge = a[i];
               }
           }
           System.out.println ("Largest: " + large);
           System.out.println ("Second Largest: " + slarge);
       }
   }

```

O/P: → Largest: 11  
 second largest: 8

- 1) WAP to find the Largest element.
- 2) WAP to find the Second Largest element.
- 3) WAP to find the Largest and Second Largest element.
- 4) WAP to find the smallest element.
- 5) WAP to find the second smallest element.
- 6) WAP to find the smallest and second smallest element.

- Ex. 7) WAP to find the 3<sup>rd</sup> Largest & 3<sup>rd</sup> smallest element.
- 8) WAP to find the k<sup>th</sup> Largest & k<sup>th</sup> smallest element.