

-) Program to print the highest occurrence of the duplicate number

input : [17,77,4,17,3,3,4,4,100,4]

output: 4

code:-

```
num = [17,77,4,17,3,3,4,4,100,4]
```

```
ps=[],index=0
```

```
for(i = 0 ; i< num.length;i++)
```

```
{
```

```
    for(j=i+1;j<num.length;j++)
```

```
    {
```

```
        if(num[i] == num[j])
```

```
        {
```

```
            ps[index] = num[i]
```

```
            index++;
```

```
        }
```

```
    }
```

```
}
```

```
max=ps[0]
```

```
for(k in ps)
```

```
{
```

```
    if(ps[k] > max)
```

```
    {
```

```
        max=ps[k]
```

```
    }
```

```
}
```

```
secmax=0
```

```
for(i of num)
```

```
{
```

```
    if(i > secmax && i < max)
```

```
    {
```

```
        secmax = i
```

```
    }
```

```
}
```

```
console.log("second duplicate maximum number : ",secmax)
```

-----  
-----

2) Write a program to print the second maximum duplicate number.

input : [17,77,4,17,3,3,4,4,100,4]

output: 4

code:-

```
num = [17,77,4,17,3,3,4,4,100,4]
```

```
temp=[],idx=0,max=0
```

```
for(i = 0 ; i< num.length;i++)
```

```
{
```

```
    for(j=i+1;j<num.length;j++)
```

```
    {
```

```
        if(num[i] == num[j])
```

```
        {
```

```
            temp[idx] = num[i]
```

```
            idx++;
```

```
        }
```

```
    }
```

```
}
```

```
for(i of temp)
```

```
{
```

```

    d=0
    for(j of num)
    {
        if(i == j)
        {
            d++;
        }
    }
    if(d>max)
    {
        max = d
    }
}
console.log("highest duplicate occurrence count : "+max)
-----
-----

```

3) Write a program to print the least repeated duplicate number.

input : [17,77,4,17,3,3,4,4,100,4,3]

output: 17

code:-

num = [17,77,4,17,3,3,4,4,100,4,3]

temp=[],idx=0,dup=0,dupcounts=0

for(i = 0 ; i< num.length;i++)

```

{
    for(j=i+1;j<num.length;j++)
    {
        if(num[i] == num[j])
        {
            temp[idx] = num[i]
            idx++;
        }
    }
}

```

for(i of temp)

```

{
    c=0
    for(j of num)
    {
        if(i == j)
        {
            c++
        }
    }
    if(c>1)
    {
        if(dupcounts == 0)
        {
            dupcounts = c
            dup=i
        }
        if(c<dupcounts)
        {
            dup = i
        }
    }
}
}

```

```
console.log("least duplicate occurrence array value : "+dup)
```