

Max and min num

```
#include <stdio.h>
```

```
#define MAX_SIZE 100 // Maximum array size
```

```
int main()
```

```
{
```

```
    int arr[MAX_SIZE];
```

```
    int i, max, min, size;
```

```
    printf("Enter size of the array: ");
```

```
    scanf("%d", &size);
```

```
    printf("Enter elements in the array: ");
```

```
    for(i=0; i<size; i++)
```

```
    {
```

```
        scanf("%d", &arr[i]);
```

```
    }
```

```
    max = arr[0];
```

```
    min = arr[0];
```

```
    for(i=1; i<size; i++)
```

```
    {
```

```
        if(arr[i] > max)
```

```
        {
```

```
            max = arr[i];
```

```
        }
```

```
        /* If current element is smaller than min */
```

```
        if(arr[i] < min)
```

```
        {
```

```
            min = arr[i];
```

```
        }
```

```
    }
```

```

printf("Maximum element = %d\n", max);
printf("Minimum element = %d", min);

return 0;
}

```

## 2. Largest number :

```

#include<stdio.h>
void thirdLargest(int arr[],int arr_size);
int main()
{
    int n,a[1000],i;
    scanf("%d",&n);
    for(i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    thirdLargest(a,n);
    return 0;
}
void thirdLargest(int arr[],int arr_size)
{
    int i,j,temp;
    for(i=0;i<arr_size-1;i++)
    {
        for(j=0;j<arr_size-i-1;j++)
        {
            if(arr[j]>arr[j+1])
            {
                temp=arr[j];
                arr[j]=arr[j+1];
                arr[j+1]=temp;
            }
        }
    }
    printf("The third Largest element is %d",arr[arr_size-3]);
}

```

## 3.missing number

```

#include <stdio.h>

void main()
{
    int n, i, j, c, t, b;

    printf("Enter size of array : ");
    scanf("%d", &n);
    int array[n - 1]; /* array size-1 */
    printf("Enter elements into array : \n");
    for (i = 0; i < n - 1; i++)
        scanf("%d", &array[i]);
    b = array[0];
    for (i = 1; i < n - 1; i++)
        b = b ^ array[i];
    for (i = 2, c = 1; i <= n; i++)
        c = c ^ i;
    c = c ^ b;
    printf("Missing element is : %d \n", c);
}

```

#### 4. Repeat number:

```

#include <stdio.h>
#include <stdlib.h>
#define n 6
int main(){
    int arr[n] = {9, 8, 7, 2, 4, 3};
    int temp;
    for(int i = 0; i<n/2; i++){
        temp = arr[i];
        arr[i] = arr[n-i-1];
        arr[n-i-1] = temp;
    }
    for(int i = 0; i < n; i++){
        printf("%d,", arr[i]);
    }
}

```