

1.Find largest and smallest numbers among an array.

```
#include<stdio.h>
int main() {
    int nos[] = {43,21,76,2,9,56,98,88,84,54,36,27};
    int max,min = nos[0];
    int n = sizeof(nos)/sizeof(nos[0]);
    for(int i=1;i<n;i++){
        if(nos[i]>max)
            max = nos[i];
        if(nos[i]<min)
            min = nos[i];
    }
    printf("Maximum value = %d \n",max);
    printf("Minimum value = %d \n",min);
}
```

2.Linear Searching an array.

```
#include<stdio.h>
int main() {
    int nos[] = {43,21,76,2,9,56,98,88,84,54,36,27};
    int key;
    int pos=-1;
    int n = sizeof(nos)/sizeof(nos[0]);
    printf("Enter element to be searched:\n");
    scanf("%d",&key);
    for(int i=0;i<n;i++){
        if(nos[i]==key){
            pos = i;
            break;
        }
    }
    if(pos>=0){
        printf("Element found at position: %d \n",pos+1);
    }else{
        printf("Element not found!\n");
    }
}
```

3.Intersection of elements of two arrays.

```
#include<stdio.h>
#include<string.h>
int main() {
    //assuming we are taking input of 2 digit nos only
    int a[] = {12, 23, 34, 45, 56,67, 78};
    int b[] = {22, 34, 45, 59, 78, 89};

    int n1 = sizeof(a)/sizeof(a[0]);
    int n2 = sizeof(b)/sizeof(b[0]);

    int freq_array[100];
    memset(freq_array,0,sizeof(freq_array));

    for(int i=0;i<n1;i++){
        freq_array[a[i]]++;
    }

    for(int j=0;j<n2;j++){
        if(freq_array[b[j]]==1){
            printf("%d ",b[j]);
        }
    }
    printf("\n");
}
```

4.Read an element n. Print all elements from 0 to n that are even.

```
#include<stdio.h>
int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d",&n);
    for(int i=0;i<=n;i+=2){
        printf("%d ",i);
    }
    printf("\n");
}
```

5. Read an element n. Print all numbers divisible by (2 and 5), (3 and 5).

```
#include<stdio.h>
int main() {
    int n;
    printf("Enter a number: ");
    scanf("%d",&n);
    printf("Numbers divisible by 2 and 5 are : ");
    for(int i=0;i<=n;i++){
        if(i%10 ==0){
            printf("%d ",i);
        }
    }
    printf("\nNumbers divisible by 3 and 5 are: ");
    for(int j=0;j<=n;j++){
        if(j%15==0){
            printf("%d ",j);
        }
    }
}
```