```c
#include <stdio.h>

int main()
{
   int a[100]={1,2,1,4,5,4};
   int n=6,count,i,j;

  for(i=0;i<n;i++){
     count=0;
     for(j=0;j<n;j++){
        if(i!=j && a[i]==a[j]){
             count++;
             break;
        }

     }
     if(count==0){
        printf("%d",a[i]);
     }
  }
   return 0;
}
```

?. Write a program to print duplicate elements in an array

```c
#include <stdio.h>

int main()
{
   int a[100]={1,2,1,4,5,4};
   int n=6,count,i,j;

  for(i=0;i<n;i++){
     count=0;
     for(j=0;j<n;j++){
        if(i!=j && a[i]==a[j]){
             count++;
             a[j]=-1;

        }

     }
     if(count==1 && a[i]!=-1){
        printf("%d",a[i]);
     }
  }
   return 0;
}
```

?. Print all prime numbers in an array

```c
int main()
{

   int a[100]={2,9,7,5,4,10};
```

```c
    int n=6,flag=0,i,j;

    for(i=0;i<n;i++){
        flag=0;
        for(j=2;j<a[i];j++){
            if(a[i]%j==0){
                flag=1;
                break;
            }
        }
        if(flag==0){
            printf("%d",a[i]);
        }

    }


    return 0;
}
```

6. Write a program to remove all the prime numbers in an array

```c
#include <stdio.h>

int main()
{

    int a[100]={2,9,7,5,4,10};
    int n=6,flag,i,j;

    for(i=0;i<n;i++){
        flag=0;
        for(j=2;j<a[i];j++){
            if(a[i]%j==0){
                flag=1;
                break;
            }
        }
        if(flag==0){
            for(j=i;j<n;j++){
                a[j]=a[j+1];
            }
            n--;
            i--;
        }
    }
    for(i=0;i<n;i++){
        printf("%d ",a[i]);
    }
    return 0;
```

}

7. Program to find the average of n (n < 10) numbers using arrays

```c
#include <stdio.h>

int main()
{
    int a[100];
    int n,i;
    float sum,avg;
    printf("Enter the number:");
    scanf("%d",&n);
    if(n<1||n>9){
        printf("Please enter number 1 to 9:");
        scanf("%d",&n);
    }
        for(i=0;i<n;i++){
            a[i]=i+1;
            sum=sum+a[i];
        }
    avg=sum/n;
    printf("Average of the number:%f",avg);

    return 0;
}
```

8. Program to find the average of n numbers using arrays

```c
#include <stdio.h>

int main()
{
    int a[100];
    int n,i;
    float sum,avg;
    printf("Enter the number:");
    scanf("%d",&n);
        for(i=0;i<n;i++){
            a[i]=i+1;
            sum=sum+a[i];
        }
    avg=sum/n;
    printf("Average of the number is:%f",avg);

    return 0;
}
```