

```
//arrays
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//input string and ascii values
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```
/*
#include<stdio.h>
int main()
{
    char str[25];
    printf("enter the string\n");
    fgets(str,25,stdin);

    for(int i=0;str[i]!='\0';i++)
    {
        printf("%d\t",str[i]);
    }
}
*/
```

```
//no less than greater or equal to zero
```

```
/*
```

```
#include<stdio.h>
int main()
{
    int a[10];
    int count1=0,count2=0,count3=0;
    printf("enter the array of 10 element:\n");
    for(int i=0;i<10;i++)
    {
        scanf("%d",&a[i]);
    }
    for(int i=0;i<10;i++)
    {
        if(a[i]==0)
        {
            count1++;
        }
        else if(a[i]>0)
        {
            count2++;
        }
        else
        {
            count3++;
        }
    }

    printf("the no of element less than zero is %d\n",count3);
    printf("the no of element greater than zero is %d\n",count2);
    printf("the no of element equal to zero is %d\n",count1);
}
*/
```

```
//copy the array
```

```
/*
#include<stdio.h>
void main()
{
    int a[5],b[5],n,i;
```

```

printf("\nEnter array element");
for(i=0;i<5;i++)
{
    scanf("%d",&a[i]);
}
for(i=0;i<5;i++)
{
    b[i]=a[i];
}
for(i=0;i<5;i++)
{
    printf("\ncopy elements are=%d",b[i]);
}
}
/*

//ocrrance of no in the array
/*
#include<stdio.h>
int main()
{
    int n,m,i,count=0;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&m);
    int a[m];
    printf("enter the two digit array element\n");
    for(int i=0;i<m;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("enter the element to be search\n");
    scanf("%d",&n);
    for(int i=0;i<m;i++)
    {
        if(a[i]==n)
        {
            count++;
        }
    }
}

printf("the no %d is apperar int array %d times\n",n,count);
}
*/

//armstrong no
/*
#include<stdio.h>
int main()
{
    int n,rem,res=0,k;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&n);
    int a[n];
    printf("enter the array\n");
    for(int i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("the armstrong nos are\n");
    for(int i=0;i<n;i++)
    {

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```
    while(a[i]>0)
    {    k=a[i];
        rem=a[i]%10;
        res=res+rem*rem*rem;
        a[i]=a[i]/10;
    }

    if(res==k)
    {
        printf("%d",res);
    }

}

}
*/

//deletion of elements
/*
#include<stdio.h>
int main()
{
    int n,k;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&n);
    int a[n];
    printf("enter the array\n");
    for(int i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("enter the index from where you want to delete the no in array\n");
    scanf("%d",&k);
    for(int i=k;i<n;i++)
    {
        a[i]=a[i+1];
    }
    n=n-1;
    printf("array after deletion\n");
    for(int i=0;i<n;i++)
    {
        printf("\n \n%d\n",a[i]);
    }

}

*/

///frequency
/*
#include<stdio.h>
int main()
{
    int n,m,temp1,max;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&m);
    int a[m];
    printf("enter the two digit array element\n");
    for(int i=0;i<m;i++)
    {
        scanf("%d",&a[i]);
    }
    temp1=max=a[0];
```

```
    for(int i=0;i<5;i++)
    {
        if(a[i]>max)
        {
            temp1=max;
            max=a[i];
        }
    }
    int count[max+1];
    for(int i=0;i<max+1;i++)
    {
        count[i]=0;
    }
    for(int i=0;i<m;i++)
    {
        count[a[i]]++;
    }
    printf("occurences\n");
    for(int i=0;i<max+1;i++)
    {
        if(count[i]!=0)
        {
            printf("occcurences of the element %d is %d\n",a[i],count[a[i]]);
        }
    }
}
*/

///min maximum no

/*
#include<stdio.h>
int main()
{
    int a[5],max,min,temp,temp1;
    printf("enter the two digit array element\n");
    for(int i=0;i<5;i++)
    {
        scanf("%d",&a[i]);
    }

    temp1=max=a[0];
    for(int i=0;i<5;i++)
    {
        if(a[i]>max)
        {
            temp1=max;
            max=a[i];
        }
    }

    min=max;
    for(int i=0;i<5;i++)
    {
        temp=min;
        if(a[i]<min)
        {
            // printf("the 2nd min no in the array is %d\n",temp);
            min=a[i];
        }
    }
}
```

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}
printf("the min no in the array is %d\n",min);
printf("the max no in the array is %d\n",max);
printf("the 2nd min no in the array is %d\n",temp);
printf("the 2nd max no in the array is %d\n",temp1);
}
*/

//palindrome
/*

#include<stdio.h>
int main()
{
    int a[10],k;
    printf("enter the array of 10 element:\n");
    for(int i=0;i<10;i++)
    {
        scanf("%d",&a[i]);

    }

    for(int i=0;i<10;i++)
    {
        k=a[i];
        int rev=0,rem;
        while(k>0)
        {
            rem=k%10;
            rev=rev*10+rem;
            k=k/10;

            if(a[i]==rev)
            {
                printf("the palindrome number %d is at the position in array at
index %d\n",a[i],i);

            }
        }
    }
}

*/

//merging
/*

#include<stdio.h>
int main()
{
    int n,m,i;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&m);
    int a[m];
    printf("enter the two digit array element\n");
    for(int i=0;i<m;i++)
    {
        scanf("%d",&a[i]);
    }
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&n);
    int b[n];
    printf("enter the two digit array element\n");
    for(int i=0;i<n;i++)
    {
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```
    scanf("%d",&b[i]);

}

int c[m+n];
for(i=0;i<m;i++)
{
    c[i]=a[i];
}
for(int j=0;j<n;j++,i++)
{
    c[i]=b[j];
}
printf("after merging\n");
for(int j=0;j<n+m;j++)
{
    printf("%d\n",c[j]);
}
}

*/

//subsequent array
/*
#include<stdio.h>
void main()
{
    int n,m,i,max,sum;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&m);
    int a[m];
    printf("enter the array element\n");
    for(int i=0;i<m;i++)
    {
        scanf("%d",&a[i]);

    }
    max=0;
    for(i=0;i<m-1;i++)
    {
        sum=a[i]+a[i+1];
        if(sum>max)
        {
            max=sum;
        }
    }

    printf(" the max sum in subsequent array is %d\n",max);
}*/

//sort asending
/*

#include<stdio.h>
int main()
{
    int a[5],temp,i,j,k,n;
    n=5;
    printf("enter the array element\n");
    for( i=0;i<5;i++)
```

```
{
    scanf("%d",&a[i]);
}

for(int j=0;j<n-1;j++)
{
    for(int k=0;k<n-j-1;k++)
    {
        if(a[k+1]<a[k])
        {
            temp=a[k];
            a[k]=a[k+1];
            a[k+1]=temp;
        }
    }
}

printf("array after sort in ascending order\n");
for(int i=0;i<5;i++)
{
    printf("%d\t",a[i]);
}

for(int j=0;j<n-1;j++)
{
    for(int k=0;k<n-j-1;k++)
    {
        if(a[k+1]>a[k])
        {
            temp=a[k];
            a[k]=a[k+1];
            a[k+1]=temp;
        }
    }
}

printf("\narray after sort in descending order\n");
for(int i=0;i<5;i++)
{
    printf("%d\t",a[i]);
}

}

*/

//array sort

/*
#include<stdio.h>
void main()
{ int n,temp;
printf("enter the no of element of the array do you want to insert\n");
scanf("%d",&n);

    int a[n];
    printf("enter the array of 10 element:\n");
    for(int i=0;i<n;i++)
    {
        scanf("%d",&a[i]);
    }
}
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```
    }
    for(int j=0;j<(n/2)-1;j++)
    {
        for(int k=0;k<(n/2)-j-1;k++)
        {
            if(a[k+1]<a[k])
            {
                temp=a[k];
                a[k]=a[k+1];
                a[k+1]=temp;
            }
        }
    }

    for(int j=n/2;j<n-1;j++)
    {
        for(int k=n/2;k<n-1;k++)
        {
            if(a[k+1]>a[k])
            {
                temp=a[k];
                a[k]=a[k+1];
                a[k+1]=temp;
            }
        }
    }
}

printf("array after sort \n");
for(int i=0;i<n;i++)
{
    printf("%d\t",a[i]);
}

}
*/

//intersection union

///intersection union
/*

#include<stdio.h>
int main()
{
    int n,m,i,flag=0;
    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&m);
    int a[m];
    printf("enter the two digit array element\n");
    for(int i=0;i<m;i++)
    {
        scanf("%d",&a[i]);
    }

    printf("enter the no of element you want to store in the array\n");
    scanf("%d",&n);
    int b[n];
```



```
printf("enter the two digit array element\n");
for(int i=0;i<n;i++)
{
    scanf("%d",&b[i]);
}

printf("intersection of the array\n");

for(int i=0;i<m;i++)
{
    for(int j=0;j<n;j++)
    {
        if(a[i]==b[j])
        {
            printf("%d\t",a[i]);
        }
    }
    printf("\nunion of the array\n");
for(int i=0;i<m;i++)
{
    printf("%d\t",a[i]);
}
for(int i=0;i<m;i++)
{
    for(int j=0;j<n;j++)
    {
        if(b[i]==a[j])
        {
            flag=1;
        }
    }
    if(flag==0)
    {
        printf("%d\t",b[i]);
    }
    flag=0;
}
}
*/
```