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```
#include<stdio.h>
#include<conio.h>
void main()
{
    int i, j, k=0;
    char a[20], b[20];
    clrscr();
    printf("Enter first string=");
    scanf("%s", a);
    printf("\nEnter second string=");
    scanf("%s", b);
    printf("\nConcatenated string=%s %s", a, b);
    while(a[k] != '\0')
    {
        k++;
    }
    j=k-1;
    for(i=0; i<k; i++)
    {
        b[i]=a[j];
        j--;
    }
    printf("\nReverse=%s", b);
    getch();}
```



Enter first string=hello

Enter second string=vssut

Concatenated string=hello vssut

Reverse=tussv olleh

```
#include<stdio.h>
#include<conio.h>
void main()
{
int i,j,k=0,l=0;
clrscr();
printf("Enter numbers=");
scanf("%d",&j);
for(i=1;i<=j;i++)
{
if(i%2==0)
l=l+i;
else
k=k+i;
}
printf("\nSum of all odd numbers=%d",k);
printf("\nSum of all even numbers=%d",l);
getch();
}
```



Enter numbers=10

Sum of all odd numbers=25

Sum of all even numbers=30_

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```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
int i,j,k,l,m;
clrscr();
printf("Enter numbers=");
scanf("%d",&i);
k=i%10;
l=(int)log10(i);
j=(int)(i/pow(10,l));
m=k;
m *=(int)pow(10,l);
m +=i%((int)pow(10,l));
m -=k;
m +=j;
printf("\nAfter swapping=%d",m);
return 0;
}
```

1:1



Enter numbers=12345

After swapping=52341_

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```
#include<stdio.h>
#include<conio.h>
int main()
{
int i,n,n1=0,n2=1,n3;
clrscr();
printf("Enter a numbers=");
scanf("%d",&n);
printf("\n%d %d",n1,n2);
for(i=2;i<n;++)
{
n3=n1+n2;
printf("%d",n3);
n1=n2;
n2=n3;
}
return 0;
}
```

18:1



Enter a numbers=15

0 1 1 2 3 5 8 13 21 34 55 89 144 233 377_

```
int main()
{
int i,j,r,c,s,p,m;
clrscr();
printf("Enter number of rows=");
scanf("%d",&r);
printf("\nEnter number of column=");
scanf("%d",&c);
printf("\nEnter matrix elements=");
for(i=0;i<r;i++)
{for(j=0;j<c;j++)
printf("\nEnter element [%d %d]=",i+1,j+1);
scanf("%d",&m[i][j]);}
s=0;
p=1;
for(i=0;i<r;i++)
{for(j=0;j<c;j++)
{s+=m[i][j];
p*=m[i][j];}}
printf("\nSum=%d\nProduct=%d",s,p);
return 0;}
```

Enter number of rows=2

Enter number of column=2

Enter matrix elements=

Enter element=1 2 3 4

Enter element=5 6 7 8

Sum=6 8 10 12

Product=19 22 43 50



LO

```
#include<stdio.h>
#include<conio.h>
int main()
{
    int i,j,k;
    clrscr();
    printf("Enter number of rows=");
    scanf("%d",&k);
    for(i=1;i<=k;i++)
    {
        for(j=1;j<=k;j++)
        {
            if(i==1 || i==k || j==1 || j==k)
                printf("* ");
            else
                printf(" ");
        }
        printf("\n");
    }
    return 0;
}
```



Enter number of rows=5

