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31. Write a program to print the given number is perfect perfect number or not?

```
Scanner input = new Scanner (System.in);
int n= input.nextInt();
int factors = 0;
for (int i=1; i<n; i++)
{
    if (n%i==0)
        factors = factors +i;
}
if (n==factors)
    System.out.print ("It's a perfect number");
```

32. Find the factorial n?

```
Scanner input = new, Scanner (System.in);
int n= input.next Inc();
int factor = 1;
for (int i=1; i<=n; i++)
{
    fact = fact * i;
}
system.out.print (n+ " factorial = "+ fact);
```

33. write a program to print the below Pat

```
Scanner input = new Scanner (System.in);
int n= input.next Int();
int k=1;
for (int i=1; i<=n; i++)
{
    for (int j=1; j<=i; j++)
    {
        system.out.print (k*k+ " ");
        k++;
    }
    System.out.print ln();
}
```

34. write a program to count numbers in an array of elements?

```java
Scanner input = new Scanner(System.in);
int arr[] = {16,15,27, 16,23, 11,19};
int len = arr.length;
int count = 0;
for (int i=0; i<len; i++)
{
    int c=0;
    for (int j=1; j<100; j++)
    {
        if (arr[i] % j == 0)
        {
            c++;
        }
    }
    if (c > 2)
        count++;
}
System.out.print ln (count);
```

35. Find the nth odd number after n odd number

```java
Scanner input = new Scanner(System.in);
int n = input.nextInt();
int arr[] = new int [100];
int j=1;
for (int i=1; i<100 ; i++)
{
    if (i%2 != 0)
    {
        arr[j]=i;
        j++;
    }
}
System.out.print (arr[n+2]);
```

86. Write a Program the find whether a character is present in a string or not?

```
Scanner input = new Scanner (System.in);
String str= input. nextline ();
char c= input. next (). charAt(0);
char arr[]= new char [str. length()];
int len = str. length();
int x= 0;
for (int i= 0; i<len; i++)
{
    arr[i] = str. charAt(i);
    if (arr[i]== c)
    {
        System.out. Print ln (c+" is found string at index: "
        x =1;
    }
}
if (x==0)
    System.out. Print (" character not found");
```

87. write a Program to Print the below pattern?

```
Scanner input = new Scanner (System.in);
Int n= input. next Int ();
for (int i=1; i<=n; i++)
{
    for (int j=1; j<=i; j++)
    {
        System. out. Print (i);
    }
    System. out. Println ();
}
for (int i=n-1; i >=1; i--)
{
    for(int j=1; j<=i; j++)
    {
        System. out. Print (i);
    }
    System. out. Print ln ();
}
```

38 Write a program to find whether the given number
is Armstrong number or not.

```
Scanner input = new Scanner (System.in);
Int n = input.nextInt();
int num1 = n;
int arm=0;
while (num1 != 0)
{
    int rem = num1 % 10;
    arm = arm + (rem * rem * rem);
    num1 = num1/10;
}
if (n == arm)
    System.out.print("Armstrong number");
else
    System.out.print("Not Armstrong number");
```

39. Write a program that accepts a string from
user and displayed that same string after
removing vowels from it.

```
Scanner input = new Scanner (System.in);
String name = input.nextline();
String n1 = new.replace all("[aeiou AEIOU]","");

System.out.print ln (n1);
```

o. write a program to find the sum of digit
of N digit number?

```
Scanner input = new Scanner (system.in);
int n = input.nextInt();
int Sum = 0;
while (n! = 0)
{
    int rem = n % 10;
    Sum = sum + rem;
    n = n /10;
}

System.out.print ln (Sum);
```