/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("enter subject1 marks:");

int a=sc.nextInt();

System.out.println("enter subject2 marks:");

int b=sc.nextInt();

System.out.println("enter subject3 marks:");

int c=sc.nextInt();

System.out.println("enter subject4 marks:");

int d=sc.nextInt();

System.out.println("enter subject5 marks:");

int e=sc.nextInt();

System.out.println("enter subject6 marks:");

int f=sc.nextInt();

int sum=a+b+c+d+e+f;

System.out.println("Sum of the marks of the student:"+sum);

float avg=(float)sum/6;

System.out.println("The AVG of the marks are:"+avg);

if(avg>=70){

System.out.println("A Grade");

}

else if(avg>=50){

System.out.println("B Grade");

}

else if(avg>=35){

System.out.println("C Grade");

}

else if(avg<35){

System.out.println("Failed");

}

else{

System.out.println("Invalid input");

}

}

}\*/

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("enter your age:");

int age=sc.nextInt();

if(age>=18){

System.out.println("You can vote");

}

else{

System.out.println("You can't vote");

}

}

}\*/

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("enter your number:");

int num=sc.nextInt();

if(num>=0){

System.out.println("Postive number");

}

else{

System.out.println("Negative number");

}

}

}\*/

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("enter number1:");

int a=sc.nextInt();

System.out.println("enter number2:");

int b=sc.nextInt();

System.out.println("enter number3:");

int c=sc.nextInt();

int max=(a>b)?((a>c)?a:c):((b>c)?b:c);

System.out.println("Largest of three numbers is:"+max);

}

}\*/

// write a java program to dind alphabets in uppercase,lowercase,digit and special charater

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter Aplhabet:");

char ch=sc.next().charAt(0);

if(ch>='A' && ch<='Z'){

System.out.println("It is upper case");

}

else if(ch>='a' && ch<='z'){

System.out.println("It is Lower case");

}

else if(ch>='0' && ch<='9'){

System.out.println("It is Digit");

}

else{

System.out.println("Special character");

}

}

}\*/

// write a java program to check wheather a give alphabet is vowel or not ..

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter Aplhabet:");

char ch=sc.next().charAt(0);

if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')

System.out.println("Vowels");

else

System.out.println("Consonents");

}

}\*/

// nested if statement

/\*class Program

{

public static void main(String[] args)

{

System.out.println("Stmt1");

if(5>2)

{

System.out.println("stmt2");

if(false)

{

System.out.println("stmt3");

}

System.out.println("stmt4");

}

System.out.println("stmt5");

}

}\*/

/\*class Program

{

public static void main(String[] args)

{

System.out.println("Stmt1");

if(5>2)

{

System.out.println("stmt2");

if(true)

{

System.out.println("stmt3");

}

System.out.println("stmt4");

}

System.out.println("stmt5");

}

}\*/

// if nested statement is false whole nested block is false we willl not print this block.

/\*class Program

{

public static void main(String[] args)

{

System.out.println("Stmt1");

if(5>20)

{

System.out.println("stmt2");

if(true)

{

System.out.println("stmt3");

}

System.out.println("stmt4");

}

System.out.println("stmt5");

}

}\*/

// write a java program to check a number is postive or negative using nested loop cencept.

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

if(n!=0)

{

if(n>0)

{

System.out.println("Positive number");

System.exit(0);

}

System.out.println("Negative number");

}

}

}\*/

// using switch case print months

// write a java program to check months based on switch condition.

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

int n=sc.nextInt();

switch(n){

case 1: System.out.println("January");

break;

case 2: System.out.println("February");

break;

case 3: System.out.println("March");

break;

case 4: System.out.println("April");

break;

case 5: System.out.println("May");

break;

case 6: System.out.println("June");

break;

case 7: System.out.println("July");

break;

case 8: System.out.println("August");

break;

case 9: System.out.println("September");

break;

case 10: System.out.println("October");

break;

case 11: System.out.println("November");

break;

case 12: System.out.println("December");

break;

default:System.out.println("Invalid Syntax");

}

}

}\*/

/\*class Main

{

public static void main(String[] args)

{

int i=1;

do{

System.out.print(i+" ");

}

while(i<=10);

}

}\*/

// write a java program to display 10 natural numbers

/\*class Main

{

public static void main(String[] args)

{

int i=1;

do{

System.out.println(i+" ");

i++;

}

while(i<=10);

}

}\*/

// perform sum of first 10 natural numbers

/\*class Main

{

public static void main(String[] args)

{

int i=1,sum=0;

do{

sum=sum+i;

System.out.println(i+" ");

i++;

}

while(i<=10);

System.out.println(sum);

}

}\*/

// write a program to find factroial of a numbers

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("enter a number:");

int n=sc.nextInt();

int i=n,fact=1;

do

{

fact=fact\*i;

i--;

}

while (i>=1);

System.out.println(fact);

}

}\*/

// write a java program to multlplication of tables in java

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number to print table:");

int n=sc.nextInt();

int i=1;

do

{

System.out.println(n+" \* "+i+" ="+n\*i);

i++;

}

while (i<=10);

}

}\*/

// while loop

/\*class Program

{

public static void main(String[] args)

{

int i=1;

while(i<=10)

{

System.out.println(i+" ");

i++;

}

}

}\*/

/\*class Program

{

public static void main(String[] args)

{

int i=10;

while(i>=1)

{

System.out.println(i+" ");

i--;

}

}

}\*/

// write a java program to find sum of 100n natural numbers using while loop?

/\*class Program

{

public static void main(String[] args)

{

int i=1,sum=0;

while(i<=100)

{

sum=sum+i;

i++;

}

System.out.println(sum);

}

}\*/

// write a java program to find factrioail of a number using while loop?

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("enter a number:");

int n=sc.nextInt();

int i=n,fact=1;

while(i>=1)

{

fact=fact\*i;

i--;

}

System.out.println(fact);

}

}\*/

// write a java program to multiply tables using while loop?

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int i=1;

while(i<=10)

{

System.out.println(n+"\*"+i+" = "+n\*i);

i++;

}

}

}\*/

// write a java program to perform sum of the digits of a given number?

// ex:123 1+2+3=6

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int rem,sum=0;

while(n>0)

{

rem=n%10;

sum=sum+rem;

n=n/10;

}

System.out.println(sum);

}

}\*/

// armstrong number

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int temp=n;

int rem,sum=0;

while(n>0)

{

rem=n%10;

sum=sum+rem\*rem\*rem;

n=n/10;

}

if(temp==sum)

System.out.println("Armstrong number");

else

System.out.println("Not a Armstrong number");

}

}\*/

// write ajava program to reverse a number

/\*import java.util.Scanner;

class Program

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int rem,rev=0;

while(n>0)

{

rem=n%10;

rev=rev\*10+rem;

n=n/10;

}

System.out.println("Reverse a number is:"+rev);

}

}\*/

// for loop in java

/\*class Program

{

public static void main(String[] args)

{

for(;;)

{

System.out.println("Hello "); // infinite hello

}

}

}\*/

//write a java program to display even numbers?

/\*class Program

{

public static void main(String[] args)

{

for(int i=1;i<=10;i++)

{

if(i%2==0)

System.out.println(i+"Even numbers");

}

}

}\*/

// first 10 natural numbers using do while loop in java

/\*class Main

{

public static void main(String[] args)

{

int i=1;

do

{

System.out.println(i+" ");

i++;

}

while(i<=10);

}

}\*/

//sum of 10 natural numbes using do while loop

/\*class Main

{

public static void main(String[] args)

{

int i=1,sum=0;

do

{

sum=sum+i;

i++;

}

while(i<=10);

System.out.println(sum);

}

}\*/

// factroial of a given number

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number:");

int n=sc.nextInt();

int i=n,fact=1;

do{

fact=fact\*i;

i--;

}

while(i>=1);

System.out.println(fact);

}

}\*/

// multliplication of a Table

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

int n=sc.nextInt();

int i=1;

do{

System.out.println(n+"\*"+i+" = "+n\*i);

i++;

}

while(i<=10);

}

}\*/

// sum of natural numbers uing for loop

/\*class Main

{

public static void main(String[] args)

{

int i=1;

while(i<=10)

{

System.out.println(i+" ");

i++;

}

}

}\*/

// reverse an natural numbers

/\*class Main

{

public static void main(String[] args)

{

int i=10;

while(i>=1)

{

System.out.println(i+" ");

i--;

}

}

}\*/

// print sum of natural numbers upto 100

/\*class Main

{

public static void main(String[] args)

{

int i=1,sum=0;

while(i<=100)

{

sum=sum+i;

i++;

}

System.out.println(sum);

}

}\*/

// factroial of a given nu,ber using while loop

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter a number to print factroial:");

int n=sc.nextInt();

int i=n,fact=1;

while(i>=1){

fact=fact\*i;

i--;

}

System.out.println("Factroial of a given number is:"+fact);

}

}\*/

// write a java program to find sum of digits from input 123 1+2+3=6;

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your number:");

int n=sc.nextInt();

int rem,sum=0;

while(n>0)

{

rem=n%10;

sum=sum+rem;

n=n/10;

}

System.out.println("sum of the digits is:"+sum);

}

}\*/

// Armstriong number in java

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter your number:");

int n=sc.nextInt();

int temp=n;

int rem,sum=0;

while(n>0)

{

rem=n%10;

sum=sum+rem\*rem\*rem;

n=n/10;

}

if(temp==sum){

System.out.println("Armstrong number");

}

else{

System.out.println("Not a Armstrong number");

}

}

}\*/

// reverse a number in java revser a string is also same.

/\*import java.util.Scanner;

class Main

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("entera a number:");

int n=sc.nextInt();

int temp=n;

int rem,sum=0;

while(n>0){

rem=n%10;

sum=sum\*10+rem;

n=n/10;

}

if(temp==sum)

System.out.println("Palindrome number");

else{

System.out.println("Not a Palindrome number");

}

}

}\*/

// for loop in java

/\*class Main

{

public static void main(String[] args)

{

for(int i=1;i<=10;i++){

System.out.println(i+" ");

}

}

}\*/

// reverse a loop

/\*class Main

{

public static void main(String[] args)

{

for(int i=10;i>=1;i--){

System.out.println(i+" ");

}

}

}\*/

// for each loop in java

/\*class Main

{

public static void main(String[] args){

for(;;)

System.out.println("hello ");

}

}\*/

// display even numbers betwwen 1 to 10;

/\*class Main

{

public static void main(String[] args)

{

for(int i=1;i<10;i++){

if(i%2==0){

System.out.println("Even numbers:"+i);

}

}

}

}\*/

// no of even numbers and odd numbers;

/\*class Main

{

public static void main(String[] args)

{

int even=0,odd=0;

for(int i=1;i<=10;i++)

{

if(i%2==0)

even++;

else

odd++;

}

System.out.println(even); // 5

System.out.println(odd); // 5

}

}\*/

/\*class Main

{

public static void main(String[] args)

{

int even=0,odd=0;

for(int i=0;i<10;i++){

if(i%2==0){

even++;

}

else{

odd++;

}

}

System.out.println(even);

System.out.println(odd);

}

}\*/

// Write a java program to display reverse of a given number in words?

/\*import java.util.Scanner;

class Main{

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter a number: ");

int num = scanner.nextInt();

scanner.close();

String reversedInWords = reverseNumberInWords(num);

System.out.println("Reversed in words: " + reversedInWords);

}

public static String reverseNumberInWords(int num) {

String[] words = {"Zero", "One", "Two", "Three", "Four", "Five", "Six", "Seven", "Eight", "Nine"};

StringBuilder result = new StringBuilder();

while (num != 0) {

int digit = num % 10;

result.insert(0, words[digit]);

num /= 10;

}

return result.toString();

}

}\*/