// Even or Odd

#include<iostream>

using namespace std;

int main(){

int num=5;

if(num%2==0)

cout<<num<<" :Even";

else

cout<<num<<" :odd";

}

// Sum of

#include<iostream>

using namespace std;

int main(){

int n=10;

int sum=0;

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

sum=sum+i;

}

cout<<sum;

}

// Sum of number in given intervel

#include<iostream>

using namespace std;

int main(){

int num1=5, num2=10, sum=0;

for(int i=num1;i<=num2;i++){

sum=sum+i;

}

cout<<sum;

}

// Greatest of 2 Number

#include<iostream>

using namespace std;

int main(){

int a=20,b=239;

if(a>b){

cout<<a<<" : is greater";

}

else{

cout<<b<<" : is greater";

}

}

// Sum of

#include<iostream>

using namespace std;

int main(){

int n=10;

int res=(n\*(n+1))/2;

cout<<res;

}

// Greatest of 3 number

#include<iostream>

using namespace std;

int main(){

int a=1,b=4,c=6;

if((a>b)&&(a>c))

cout<<a<<" is the greater";

if((b>a)&&(b>c))

cout<<b<<" is the greater";

else

cout<<c<<" is greater";

}

//Leap Year

#include<iostream>

using namespace std;

int main(){

int year=2024;

if(year%400==0)

cout<<"Year is Leap";

else if(year%4==0 && year%100!=0)

cout<<"Year is Leap";

else{

cout<<"Year is not Leap Year";

}

}

//Prime number

#include<iostream>

using namespace std;

int main(){

int n=3,count=0;

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

if(n%i==0)

count=count+1;

}

if(n==0 || n==1){

cout<<"Not Prime";

}

else if(count>2){

cout<<"Not prime";

}

else{

cout<<"Prime";

}

}

// Sum of digit

#include<iostream>

using namespace std;

int main(){

int num=123456,sum=0;

while(num!=0){

sum=sum+num%10;

num=num/10;

}

cout<<sum;

}

// Reversed Number

#include<iostream>

using namespace std;

int main(){

int num=1234,rev=0,rem;

while(num!=0){

rem=num%10;

rev=rev\*10+rem;

num=num/10;

}

cout<<"Reversed Number : "<<rev;

}

// palindrome

#include<iostream>

using namespace std;

int main(){

int rem=0, num=12321, rev=0,temp=num;

while(temp!=0){

rem=temp%10;

rev=rev\*10+rem;

temp=temp/10;

}

if(num==rev){

cout<<num<<" is palindrome";

}

else

cout<<num<<" not Palindrome";

}

//Fibonacci Series

#include<iostream>

using namespace std;

int main(){

int num=15;

int a=0,b=1;

int nextTerm;

for(int i=2;i<num;i++){

nextTerm=a+b;

a=b;

b=nextTerm;

cout<<nextTerm<<" ";

}

}

//Factorial Of Number

#include<iostream>

using namespace std;

int main(){

int num=2,fact=1;

if(num<0){

cout<<"Not Possible";

}

else{

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

fact=fact\*i;

}

cout<<fact;

}

}

//Factors of Numbers

#include<iostream>

using namespace std;

int main(){

int num=100;

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

if(num%i==0)

cout<<i<<" ";

}

}

//Perfect Number

#include<iostream>

using namespace std;

int main(){

int n=28,sum=0;

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

if(n%i==0)

sum=sum+i;

}

if(sum==n){

cout<<n<<" is perfect Number";

}

else{

cout<<n<<" is not perfect Number";

}

}

// Number of digit

#include<iostream>

using namespace std;

int main(){

int num=20202;

int digit=0;

while(num>0){

digit++;

num=num/10;

}

cout<<"No. of digit = "<<digit;

}

// Occurrence in Digit

#include<iostream>

using namespace std;

int main(){

long long int n=23454246632;

int d=2;

int count=0;

while(n){

int rem=n%10;

if(rem==d){

count++;

}

n=n/10;

}

cout<<count;

}

//Largest Number In Array

#include<iostream>

using namespace std;

int main(){

int arr[]={12,14,54,64,6,3,6};

for(int i=0;i<=sizeof(arr)/sizeof(arr[0]);i++){

if(arr[0]<arr[i])

// if(arr[0]>arr[i]) for Find Smallest number in array

arr[0]=arr[i];

}

cout<<arr[0];

}

//length Of String

// #include<iostream>

// using namespace std;

// int len(char\*str){

// int count=0;

// while(\*str!='\0'){

// count++;

// str++;

// }

// return count;

// }

// int main(){

// char str[]="Sarvjit";

// cout<<len(str);

// }

#include <string>

#include <iostream>

using namespace std;

int main()

{

string str = "charactrs";

cout << str.size();

return 0;

}

//Reverse The String

// #include<iostream>

// #include<string.h>

// using namespace std;

// int main()

// {

// int i,n;

// string str = "TutorJoes";

// n=str.length();

// for (i=0;i<n/2;i++)

// {

// swap(str[i],str[n-i-1]);

// }

// cout<<"\nAfter reversing string "<<str;

// return 0;

// }

// #include <bits/stdc++.h>

// using namespace std;

// int main()

// {

// string str = "geeksforgeeks";

// // Reverse str[begin..end]

// reverse(str.begin(), str.end());

// cout << str;

// return 0;

// }

#include<iostream>

using namespace std;

int main(){

string str ="Sarvjit";

int n=str.length();

for (int i = n; i >= 0; i--)

{

cout<<str[i];

}

}