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**OBJECTIVE**: Print hello world in java.

**SOFTWARE USED**: IntelliJ IDEA

## **SOURCE CODE**

```
public class hello_world{
            public static void main(String[] args)
            {
                 System.out.println("Hello World!");
            }
}
```

# OUTPUT:

Hello World!

**OBJECTIVE**: Write a program to enter a string and print it.

**SOFTWARE USED**: IntelliJ IDEA

#### **SOURCE CODE**

```
Enter a string: My name is Manav
Your string is: My name is Manav
```

**OBJECTIVE**: Write a program to calculate the distance travelled by a vehicle at regular intervals of time given the values of acceleration and u. The program should provide the flexibility to the user to select their own time intervals and repeat calculations for different values of a and u.

**SOFTWARE USED**: IntelliJ IDEA

#### **SOURCE CODE**

```
import java.util.Scanner;
public class DistanceCalculator {
       public static void main(String[] args) {
               Scanner input = new Scanner(System.in);
               double acceleration, initialVelocity, timeInterval;
               double distance;
               System.out.print("Enter the acceleration value: ");
               acceleration = input.nextDouble();
               System.out.print("Enter the initial velocity value: ");
               initialVelocity = input.nextDouble();
               System.out.print("Enter the time interval value: ");
               timeInterval = input.nextDouble();
               distance = (initialVelocity * timeInterval) + (0.5 * acceleration
        Math.pow(timeInterval, 2));
               System.out.println("The distance travelled is: " + distance);
       }
}
```

```
Enter the acceleration value: 2
Enter the initial velocity value: 3
Enter the time interval value: 4
The distance travelled is: 28.0
```

```
OBJECTIVE: WAP to print this pattern.
1
23
456
78910
11 12 13 14 15
SOFTWARE USED: IntelliJ IDEA
SOURCE CODE
public class PatternPrinter {
       public static void main(String[] args) {
              int rows = 5;
              int count = 1;
              for (int i = 0; i < rows; i++) {
                      for (int j = 0; j \le i; j++) {
                             System.out.print(count + " ");
                             count++;
                      System.out.println();
              }
       }
}
```

```
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
```

**OBJECTIVE**: WAP to find the larger number using constructors.

**SOFTWARE USED:** IntelliJ IDEA

#### **SOURCE CODE**

```
Enter the value of a
34
Enter the value of b
21
The largest number is a: 34
```

**OBJECTIVE**: WAP for matrix multiplication

**SOFTWARE USED:** IntelliJ IDEA

```
SOURCE CODE
```

```
import java.util.*;
class Main
   public static void main (String[]args)
     int[][] matrixA = \{ \{1, 2, 3\}, \{4, 5, 6\} \};
  int[][] matrixB = { {7, 8}, {9, 10}, {11, 12} };
  int[][] product = new int[2][2];
  for (int i = 0; i < 2; i++)
       for (int j = 0; j < 2; j++)
          product[i][j] = 0;
  for (int k = 0; k < 3; k++)
   product[i][j] += (matrixA[i][k] * matrixB[k][j]);
  for (int i = 0; i < 2; i++)
        for (int j = 0; j < 2; j++)
   System.out.print (product[i][j] + " ");
   System.out.println ();
}
```

**OBJECTIVE**: An election is contested by 5 candidates the candidates are numbered 1-5 and voting is done by marking the candidate number on ballet paper. wap to read ballets and count the votes cast for each candidate using an array variable count. in case a number is outside the range 1-5 the ballet should be considered as spoilt ballet and program should also count the number of spoilt ballots.

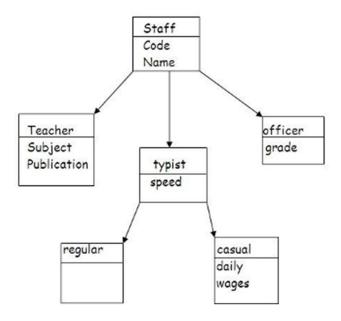
**SOFTWARE USED**: IntelliJ IDEA

```
import java.util.Scanner;
  public class voters
   public static void main (String[]args)
     Scanner sc = new Scanner (System.in);
      System.out.print ("Enter the number of vote: ");
     int n = sc.nextInt ();
     int v[] = new int[n];
     for (int i = 0; i < n; i++)
       System.out.print ("Enter your vote: ");
       v[i] = sc.nextInt ();
     sc.close();
     int c1 = 0;
     int c2 = 0;
     int c3 = 0:
     int c4 = 0;
     int c5 = 0;
     for (int i = 0; i < n; i++)
       switch (v[i])
        case 1:
          c1++:
          break;
        case 2:
          c2++:
          break;
         case 3:
          c3++;
          break;
         case 4:
          c4++;
          break;
         case 5:
          c5++;
          break;
         default:
          break;
```

```
}
         }
       System.out.println ("Candidate 1 got: " + c1);
System.out.println ("Candidate 2 got: " + c2);
       System.out.println ("Candidate 3 got: " + c3);
       System.out.println ("Candidate 4 got: " + c4);
       System.out.println ("Candidate 5 got: " + c5);
System.out.println ("No. of wasted votes: " +
                                (n - c1 - c2 - c3 - c4 - c5));
     }
}
```

```
Enter the number of vote: 5
Enter your vote: 1
Enter your vote: 4
Enter your vote: 3
Enter your vote: 2
Enter your vote: 1
Candidate 1 got: 2
Candidate 2 got: 1
Candidate 3 got: 1
Candidate 4 got: 1
Candidate 5 got: 0
No. of wasted votes: 0
```

**OBJECTIVE**: WAP to display Staff details using inheritance of classes and interfaces



**SOFTWARE USED**: IntelliJ IDEA

```
import java.util.*;

abstract class Staff{
    String code,name;
    Staff(String Code , String Name){
        code = Code;
        name = Name;
    }
    abstract void display();
}

class Teacher extends Staff{
    String subject;
    int publication;
    Teacher(String Code, String Name, String Subject, int Publication){
```

```
super(Code, Name);
     subject=Subject;
     publication=Publication;
  }
  void display(){
     System.out.println("Code: " + code + "\nName: " + name + "\nSubject: " + subject +
"\nPublication: " + publication);
  }
}
abstract class Typist extends Staff{
  int speed;
  Typist(String Code, String Name, int Speed){
     super(Code, Name);
     speed=Speed;
  }
}
class Regular extends Typist{
  int salary;
  Regular(String Code, String Name, int Speed, int Salary){
     super(Code, Name, Speed);
     salary=Salary;
  void display(){
     System.out.println("Code: " + code + "\nName: " + name + "\nSpeed: " + speed + "\nSalary:
" + salary);
  }
}
class Casual extends Typist{
  int dailywage;
  Casual(String Code, String Name, int Speed, int Dailywage){
     super(Code, Name, Speed);
     dailywage=Dailywage;
  }
  void display(){
     System.out.println("Code: " + code + "\nName: " + name + "\nSpeed: " + speed +
"\nDailywage: " + dailywage);
  }
}
class Officer extends Staff{
  String grade;
```

```
Officer(String Code, String Name, String Grade)
     super(Code,Name);
     grade=Grade;
  }
  void display(){
     System.out.println("Code: " + code + "\nName: " + name + "\nGrade: " + grade);
  }
}
class staffdb{
  public static void main(String args[]){
     int n;
     Scanner sc = new Scanner(System.in);
     System.out.println("Enter the number of staffs");
     n = sc.nextInt();
     Staff s[] = new Staff[n];
     for(int i=0;i< n;i++){
       System.out.println("Enter the type of staff");
       String type = sc.next();
       if(type.equals("Teacher")){
          System.out.println("Enter the code");
          String code = sc.next();
          System.out.println("Enter the name");
          String name = sc.next();
          System.out.println("Enter the subject");
          String subject = sc.next();
          System.out.println("Enter the publication");
          int publication = sc.nextInt();
          s[i] = new Teacher(code,name,subject,publication);
       }
       else if(type.equals("Regular")){
          System.out.println("Enter the code");
          String code = sc.next();
          System.out.println("Enter the name");
          String name = sc.next();
          System.out.println("Enter the speed");
          int speed = sc.nextInt();
          System.out.println("Enter the salary");
          int salary = sc.nextInt();
          s[i] = new Regular(code,name,speed,salary);
       else if(type.equals("Casual")){
          System.out.println("Enter the code");
          String code = sc.next();
```

```
System.out.println("Enter the name");
          String name = sc.next();
          System.out.println("Enter the speed");
          int speed = sc.nextInt();
          System.out.println("Enter the dailywage");
          int dailywage = sc.nextInt();
          s[i] = new Casual(code,name,speed,dailywage);
       }
       else if(type.equals("Officer")){
          System.out.println("Enter the code");
          String code = sc.next();
          System.out.println("Enter the name");
          String name = sc.next();
          System.out.println("Enter the grade");
          String grade = sc.next();
          s[i] = new Officer(code,name,grade);
       }
     for(int i=0;i< n;i++){
       s[i].display();
       System.out.println();
     }
  }
}
```

```
Enter the number of staffs
2
Enter the type of staff
Teacher
Enter the code
T21
Enter the name
Jmes
Enter the subject
Java
Enter the publication
Enter the type of staff
Regular
Enter the code
R123
Enter the name
Reg
Enter the speed
Enter the salary
123000
Code: T21
Name: Jmes
Subject: Java
Publication: 2
Code: R123
Name: Reg
Speed: 23
Salary: 123000
```

**OBJECTIVE**: WAP to input a string and output in alphabetical order

**SOFTWARE USED**: IntelliJ IDEA

#### **SOURCE CODE**

```
public class stringrewrite {
    public static void main(String args[]) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter a string");
        String str = sc.nextLine();
        char ch[] = str.toCharArray();
        Arrays.sort(ch);
        System.out.println("The string in alphabetical order is: ");
        System.out.println(ch);
    }
}
```

```
Enter a string
STRING
The string in alphabetical order is:
GINRST
```

```
OBJECTIVE: WAP to display student details using inheritance
SOFTWARE USED: IntelliJ IDEA
SOURCE CODE
import java.util.*;
class Student
{
Scanner sc = new Scanner (System.in);
 int rollno;
void getrollno ()
 {
System.out.print ("Enter rollno: ");
  rollno = sc.nextInt ();
}
void putrollno ()
System.out.println ("Your rollno is: " +
rollno);
}
}
class Details extends Student
{
String firstname;
 String lastname;
 void getname ()
System.out.print ("Enter first name: ");
  firstname = sc.nextLine ();
  System.out.print ("Enter last name:
  lastname = sc.nextLine ();
}
```

```
void putname ()
 {
System.out.println ("Name: " +
firstname + " " + lastname);
}
}
class Test extends Student
{
int M1, M2;
 void getmarks ()
 {
System.out.print ("Enter marks1: ");
  M1 = sc.nextInt ();
  System.out.print ("Enter marks2: ");
  M2 = sc.nextInt ();
}
void putmarks ()
 {
System.out.println ("Marks1: " + M1);
  System.out.println ("Marks2: " + M2);
}
}
interface Sports
{
double sportwt = 6.0;
 void putwt ();
}
```

```
class Result extends Test implements
Sports
{
double total;
 public void putwt ()
System.out.println ("Sports Weight: " +
sportwt);
void display ()
 {
total = M1 + M2 + sportwt;
  System.out.println ("Rollno.: " +
rollno);
  System.out.println ("Total Marks: " +
total);
}
}
class Exam
{
public static void main (String args[])
 {
Result R1 = new Result ();
  Details D1 = new Details ();
  D1.getname ();
D1.putname ();
  R1.getrollno ();
  R1.putrollno ();
  R1.getmarks ();
  R1.putmarks ();
```

```
R1.putwt ();
R1.display ();
}
}
OUTPUT:
Enter first name: Jeff
Enter last name: Malek
Name: Jeff Malek
Enter rollno: 26
Your rollno is: 26
Enter marks1: 99
Enter marks2: 100
Marks1: 99
Marks2: 100
Sports Weight: 6.0
Rollno.: 26
Total Marks: 205.0
```

**OBJECTIVE**: Given the annual examination Results of 10 students. Write a program to read the data and determine total marks, highest marks in each subject and roll number of the student who scored it.

**SOFTWARE USED**: IntelliJ IDEA

```
import java.util.*;
class Results{
       int rollno;
       int marks1,marks2,marks3;
       int total;
       static int maxmarks1,maxmarks2,maxmarks3;
       static int totalmax;
       static int rollmax1,rollmax2,rollmax3,rollmax;
       Results(int rollno,int marks1,int marks2,int marks3){
       this.rollno = rollno;
       this.marks1 = marks1;
       this.marks2 = marks2;
       this.marks3 = marks3;
       total = marks1+marks2+marks3;
       if(marks1>maxmarks1){
       maxmarks1 = marks1;
       rollmax1 = rollno;
       if(marks2>maxmarks2){
       maxmarks2 = marks2;
       rollmax2 = rollno;
       if(marks3>maxmarks3){
       maxmarks3 = marks3;
       rollmax3 = rollno;
       if(total>totalmax){
       totalmax = total;
       rollmax = rollno;
       }
}
```

```
class ExamResults{
       public static void main(String args[]){
       Scanner sc = new Scanner(System.in);
       Results[] r = new Results[10];
       int rollno = 1;
       for(int i=0;i<10;i++){}
       System.out.println("Enter the marks of the student "+rollno+" in 3 subjects separated by
spaces");
       int marks1 = sc.nextInt();
       int marks2 = sc.nextInt();
       int marks3 = sc.nextInt();
       r[i] = new Results(rollno,marks1,marks2,marks3);
       rollno++;
       }
       System.out.println("The total marks of each student are: ");
       for(int i=0;i<10;i++){}
       System.out.println("The total marks of student "+r[i].rollno+" are "+r[i].total);
       System.out.println("The highest marks in each subject are: ");
       System.out.println("The highest marks in subject 1 are "+Results.maxmarks1+" scored
by student "+Results.rollmax1);
       System.out.println("The highest marks in subject 2 are "+Results.maxmarks2+" scored
by student "+Results.rollmax2);
       System.out.println("The highest marks in subject 3 are "+Results.maxmarks3+" scored
by student "+Results.rollmax3);
       System.out.println("The highest total marks are "+Results.totalmax+" scored by student
"+Results.rollmax);
       }
}
```

```
Enter the marks of the student 1 in 3 subjects separated by spaces
1 1 1
Enter the marks of the student 2 in 3 subjects separated by spaces
Enter the marks of the student 3 in 3 subjects separated by spaces
2 3 3
Enter the marks of the student 4 in 3 subjects separated by spaces
3 4 4
Enter the marks of the student 5 in 3 subjects separated by spaces
Enter the marks of the student 6 in 3 subjects separated by spaces
5 6 6
Enter the marks of the student 7 in 3 subjects separated by spaces
6 7 7
Enter the marks of the student 8 in 3 subjects separated by spaces
7 8 8
Enter the marks of the student 9 in 3 subjects separated by spaces
0 0 10
Enter the marks of the student 10 in 3 subjects separated by spaces
2 3 4
The total marks of each student are:
The total marks of student 1 are 3
The total marks of student 2 are 5
The total marks of student 3 are 8
The total marks of student 4 are 11
The total marks of student 5 are 15
The total marks of student 6 are 17
The total marks of student 7 are 20
The total marks of student 8 are 23
The total marks of student 9 are 10
The total marks of student 10 are 9
The highest marks in each subject are:
The highest marks in subject 1 are 7 scored by student 8
The highest marks in subject 2 are 8 scored by student 8
The highest marks in subject 3 are 10 scored by student 9
The highest total marks are 23 scored by student 8
```

**OBJECTIVE**: WAP to print the maximum temperature and the city and day on which it was recorded, followed by the minimum temperature and the city and day on which it was recorded

**SOFTWARE USED**: IntelliJ IDEA

#### **SOURCE CODE**

```
import java.lang.*;
public class CustomException {
  public static void main(String[] args) { int a=10;
  int b=1; int c=10; try{
  int d = b*b-4*a*c; if(d<0)
  {
    throw new ArithmeticException("This is a custom exception");
  }
}
catch(ArithmeticException e){ System.out.println(e);
}
}
</pre>
```

## **OUTPUT:**

java.lang.ArithmeticException: This is a custom exception

OBJECTIVE: WAP to check if two floating point numbers are the same upto 3 decimal places

**SOFTWARE USED**: IntelliJ IDEA

#### **SOURCE CODE**

```
import java.util.*;
import java.lang.*;
class threeDigitAccuracy
public static void main (String args[])
Scanner sc = new Scanner (System.in);
  System.out.println ("Enter the first number");
  double a = sc.nextDouble ();
  System.out.println ("Enter the second number");
  double b = sc.nextDouble ();
if (Math.abs (a - b) < 0.001)
System.out.
         println ("The numbers are the same upto 3 decimal places");
}
  else
places ");
System.out.println(" The numbers are not the same upto 3 decimal
}
}
```

```
Enter the first number
2.333
Enter the second number
2.3334
The numbers are the same upto 3 decimal places
```

**OBJECTIVE**: WAP to print the maximum temperature and the city and day on which it was recorded, followed by the minimum temperature and the city and day on which it was recorded

**SOFTWARE USED**: IntelliJ IDEA

```
class temperatureCatalog{
       public static void main(String args[]){
       Scanner sc = new Scanner(System.in);
       System.out.println("Enter the number of cities");
       int n = 10;
       int Temperature[][] = new int[31][10];
       for(int i=0;i<31;i++){
       for(int j=0;j<n;j++){
               System.out.println("Enter the temperature of city "+(j+1)+" on day "+(i+1));
               Temperature[i][j] = sc.nextInt();
       }
       }
       int max = Temperature[0][0];
       int min = Temperature[0][0];
       int maxcity = 0;
       int mincity = 0;
       int maxday = 0;
       int minday = 0;
       for(int i=0; i<31; i++){
       for(int j=0;j<n;j++){
               if(Temperature[i][j]>max){
               max = Temperature[i][j];
               maxcity = j;
               maxday = i;
               if(Temperature[i][j]<min){</pre>
               min = Temperature[i][j];
               mincity = j;
               minday = i;
               }
       }
       System.out.println("The maximum temperature is "+max+" on day "+(maxday+1)+" in
city "+(maxcity+1));
```

```
System.out.println("The minimum temperature is "+min+" on day "+(minday+1)+" in city "+(mincity+1));
}
```

```
Enter the number of cities
3
Enter the temperature of city 1 on day 1
35
Enter the temperature of city 2 on day 1
32
Enter the temperature of city 3 on day 1
30
Enter the temperature of city 1 on day 2
33
Enter the temperature of city 2 on day 2
34
Enter the temperature of city 3 on day 2
31
Enter the temperature of city 1 on day 3
29
Enter the temperature of city 2 on day 3
30
Enter the temperature of city 3 on day 3
35
The maximum temperature is 37 on day 2 in city 2
The minimum temperature is 24 on day 4 in city 1
```

**OBJECTIVE**: WAP to demonstrate multi-threading with sleep and interrupt methods.

**SOFTWARE USED**: IntelliJ IDEA

```
import java.util.*;
class Alpha extends Thread{
  int Sec;
  Alpha(int sec){
     Sec = sec;
  public void run(){
     try{
       Thread.sleep(Sec);
       System.out.println("Thread Type 1 finished after " + Sec + " milliseconds");
     }catch(InterruptedException e){
       System.out.println("Thread type 1 interrupted");
    }
  }
}
class Beta extends Thread{
  public void run(){
     try{
       Thread.sleep(2000);
       System.out.println("Thread Type 2 finished after 2000 milliseconds");
     }catch(InterruptedException e){
       System.out.println("Thread Type 2 interrupted");
  }
class MultiThreading{
  public static void main(String args[]){
     Alpha t1 = \text{new Alpha}(5000);
     Beta t2 = new Beta();
     Alpha t3 = \text{new Alpha}(10000);
     t1.start();
     t2.start();
     t3.start();
```

**OBJECTIVE**: WAP for Quadratic Exception.

**SOFTWARE USED**: IntelliJ IDEA

```
import java.util.*;
class QuadraticEquationSolver
public static void main (String args[])
   Scanner input = new Scanner (System.in);
  int coefficientA = input.nextInt ();
int coefficientB = input.nextInt ();
  int coefficientC = input.nextInt ();
double discriminantSquare =
    (coefficientB * coefficientB) - (4 * coefficientA * coefficientC);
try
if (discriminantSquare < 0)
throw new ArithmeticException ("Equation gives imaginary roots!");
}
   catch (ArithmeticException exception)
    System.out.println (discriminantSquare);
}
input.close ();
}
}
```

**OBJECTIVE**: WAP to throw and catch NullPointerException and ArrayIndexOutOfBoundsException.

**SOFTWARE USED**: IntelliJ IDEA

#### **SOURCE CODE**

```
import java.util.Scanner;
class ExceptionHandling{
       public static void main(String args[]){
               Scanner sc = new Scanner(System.in);
               int[] a = new int[5];
               for(int i=0; i<5; i++){
               try{
                       System.out.println("Enter the index of the array");
                       int index = sc.nextInt();
                       System.out.println("Enter the value to be stored at index "+index);
                       int value = sc.nextInt();
                       a[index] = value;
               catch(ArrayIndexOutOfBoundsException e){
                       System.out.println("The index is out of bounds");
                       i--;
               }
               for(int i=0; i<5; i++){
               System.out.print(a[i] + " ");
       }
}
```

```
Enter the index of the array

2
Enter the value to be stored at index 2

12
Enter the index of the array

6
Enter the value to be stored at index 6

13
The index is out of bounds
```

OBJECTIVE: Write a method to Use Interface to Calculate the Area/Volume of a Rectangle /

Cuboid

**SOFTWARE USED**: IntelliJ IDEA

```
import java.util.*;
interface Shape
void calculate ();
}
class Rectangle implements Shape
 double dim1, dim2;
Rectangle ()
Scanner sc = new Scanner (System.in);
  System.out.println ("Enter the length of the rectangle: ");
  dim1 = sc.nextDouble ();
System.out.println ("Enter the breadth of the rectangle: ");
  dim2 = sc.nextDouble ();
}
public void calculate ()
 {
System.out.println ("Area of Rectangle: " + dim1 * dim2);
class Cuboid implements Shape
 double dim1, dim2, dim3;
Cuboid ()
Scanner sc = new Scanner (System.in);
  System.out.println ("Enter the length of the cuboid:");
  dim1 = sc.nextDouble ();
System.out.println ("Enter the breadth of the cuboid: ");
```

```
dim2 = sc.nextDouble ();

System.out.println ("Enter the height of the cuboid:");
  dim3 = sc.nextDouble ();
}

public void calculate ()
{
  System.out.println ("Volume of Cuboid: " + dim1 * dim2 * dim3);
}
}

class geometry
{
  public static void main (String args[])
  {
    Rectangle r = new Rectangle ();
    Cuboid c = new Cuboid ();
    r.calculate ();

c.calculate ();
}
```

```
Enter the length of the rectangle:

10
Enter the breadth of the rectangle:
20
Enter the length of the cuboid:
10
Enter the breadth of the cuboid:
20
Enter the height of the cuboid:
30
Area of Rectangle: 200.0
Volume of Cuboid: 6000.0
```

**OBJECTIVE**: Write A Program to implement event handling using one label and one button

**SOFTWARE USED**: IntelliJ IDEA

```
SOURCE CODE
import java.awt.*;
import java.awt.event.*;
import java.applet.*;
public class EventHandling extends Applet implements ActionListener
 Label I;
 Button b;
public void init ()
 {
  I = new Label ("This is a label");
  b = new Button ();
  add (I);
  add (b);
  b.addActionListener (this);
public void actionPerformed (ActionEvent e)
  I.setText ("Button Pressed");
}
}
<applet code="EventHandling" width=300 height=300>
</applet>
```

Applet Viewer: EventHandling 🔔 🚫	Applet Viewer: EventHandling 🔔 🗙
Applet	Applet
This is a label	Button Presser
Applet started.	Applet started.
Applet started.	Applet starteu.

**OBJECTIVE**: Write a method called delete that returns the input string with the mth element removed

**SOFTWARE USED**: IntelliJ IDEA

```
SOURCE CODE
```

```
import java.awt.*;
import java.util.*;
public class Main
public static String delete (String str, int m)
String s2 = "";
for (int i = 0; i < str.length (); i++)
    {
if (i != m - 1)
         {
s2 = s2 + str.charAt(i);
}
}
return (s2);
}
public static void main (String[]args)
   Scanner sc = new Scanner (System.in);
   System.out.println ("Enter the String: ");
   String s = sc.nextLine ();
   System.out.println ("Enter the index value");
   int m = sc.nextInt ();
   System.out.println (delete (s, m));
}
}
```