808784
Livia Wyler

```
public class Divisors {
  // public static void main (String[] args) {
     //int divisor = Integer.parseInt(args[0]);
     // int divisor2 = 1++ ;
     // if (x % Divisor = 0);

   // System.out.println(Divisor);
  //  else {
     // if (x % Divisor = 0);
     // System.out.println(1);
     // System.out.println(Divisor);

  public static void main (String[] args) {
     int divisor = Integer.parseInt(args[0]);
     for (int x = 1; x <= divisor; x ++) {
        if (divisor % x == 0) {
           System.out.println(x);
        }
     }
  }
}
```

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```java
public class Reverse {
  public static void main (String[] args){
     String input = args [0];
     String reverse = "";

     for (int num = input.length() - 1; num >=0; num--) {
        reverse += input.charAt(num);
     }
     System.out.println(reverse);
     Character middle = input.charAt((input.length()-1)/2);
     System.out.println("The middle character is " + middle);
  }
}
```

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```
public class InOrder {
   public static void main (String[] args) {
      int randomNum = (int) (Math.random()*(10-0+1)+0);
      int previous = 0;

      while (previous <= randomNum) {
         System.out.print(randomNum + " ");
         previous = randomNum;
         randomNum = (int) (Math.random()*(10-0+1)+0);

      }
   }
}
```

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```
public class Perfect {
  public static void main (String[] args) {
     //// Put your code here
     int perfectNum = Integer.parseInt(args[0]);
     int store = 1;
     String perfect = perfectNum + " is a perfect number since " + perfectNum + " =
1";
     for (int x = 2; x < perfectNum; x ++) {
        if (perfectNum % x == 0) {
           store += x;
           perfect += " + " + x;


        }
     }
     if (store == perfectNum){
        System.out.println(perfect);


     }
     else {
        System.out.println(perfectNum + " is not a perfect number");
     }
  }
}
```

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```java
public class DamkaBoard {
  public static void main(String[] args) {
    //// Put your code here
    int num = Integer.parseInt(args[0]);
    for (int row = 0; row < num; row++) {
      String space = "";
      if (row % 2 == 1) {
        space = " *";
      }
      else {
        space = "* ";
      }
      for (int l = 0; l < num; l++) {
        System.out.print(space);
      }
      System.out.println("");
    }
  }
}
```

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```
public class OneOfEach{
   public static void main (String[] args) {
      //// Put your code here
      int sumChildrenCount = 0;
      boolean boy = false;
      boolean girl = false;
      while (!(boy && girl)) {
         if (Math.random() < 0.5) {
            System.out.print("b "); // Print 'b' for boy
            boy = true;
         }
         else {
            System.out.print("g "); // Print 'g' for girl
            girl = true;
         }
         sumChildrenCount++;
      }
      System.out.println("\nYou made it... and you now have "+ sumChildrenCount+ "
children.");

   }
}
```

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```
public class OneOfEachStats1 {
  public static void main (String[] args) {
    int T = Integer.parseInt(args[0]);
    int totalChildren = 0;
    int twoChildrenCount = 0;
    int threeChildrenCount = 0;
    int fourOrMoreChildrenCount = 0;
    String firstMostCommon = "";
    for  (int i = 0; i < T; i++) {
      int childrenCount = 0;
      boolean boyBorn = false;
      boolean girlBorn = false;
      while (!(boyBorn && girlBorn)) {
        if (Math.random() < 0.5) {
          boyBorn = true;
        } else {
          girlBorn = true;
        }
        childrenCount++;
      }
      totalChildren = totalChildren + childrenCount;
      if (childrenCount == 2) {
        twoChildrenCount ++;
        firstMostCommon = firstMostCommon.concat("2");
      }
      if (childrenCount == 3) {
        threeChildrenCount ++;
        firstMostCommon = firstMostCommon.concat("3");
      }
      if (childrenCount > 3) {
        fourOrMoreChildrenCount ++;
        firstMostCommon = firstMostCommon.concat("4");
      }
    }
```

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```
      System.out.println("Average: "+ (double) totalChildren/T + " children to get at
least one of each gender");
      System.out.println("Number of families with two children: " + twoChildrenCount);
      System.out.println("Number of families with three children: " +
threeChildrenCount);
      System.out.println("Number of families with four or more children: " +
fourOrMoreChildrenCount);
      if ((twoChildrenCount > threeChildrenCount && twoChildrenCount >
fourOrMoreChildrenCount) || (firstMostCommon.charAt(0) == '2') ){
          System.out.println("The most common number of children is 2.");
      }
      else if ( (threeChildrenCount > twoChildrenCount && threeChildrenCount >
fourOrMoreChildrenCount) || (firstMostCommon.charAt(0) == '3') ) {
          System.out.println("The most common number of children is 3." );
      }
      else if ((fourOrMoreChildrenCount > threeChildrenCount &&
fourOrMoreChildrenCount > twoChildrenCount) || (firstMostCommon.charAt(0) == '4'
) )
      {
          System.out.println("The most common number of children is 4 or more." );
      }



  }
}
  }
}
```