Reverse a number:

- Reversing a number using while loop.

```
public class Reverse_a_Number {

public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter a number to reverse:");
        int num=sc.nextInt();

        while(num!=0) {
                int num1=num%10;
                System.out.print(num1);
                num=num/10;
        }
}

}
```

Input: 123

Output: 321

Palindrome Number:

Checking a number is palindrome or not

```
class A{
public static int reverse(int num1) {
        int num2=0;
        while(num1!=0) {
                num2=num2*10+num1%10;
                num1=num1/10;
        }
        return num2;
}
}
public class Number_palindrome {

public static void main(String[] args) {

        Scanner sc=new Scanner(System.in);
        System.out.println("Enter number to check palindrom or not:");
```

```
        int num=sc.nextInt();
        int num3=A.reverse(num);
        if(num==num3) System.out.println(num+" is a palindrome");
        else System.out.println(num+" is not a palindrome");
        sc.close();

    }
```

Input 1: 123

Output 1: 123 is not a palindrome.

Input 2: 121

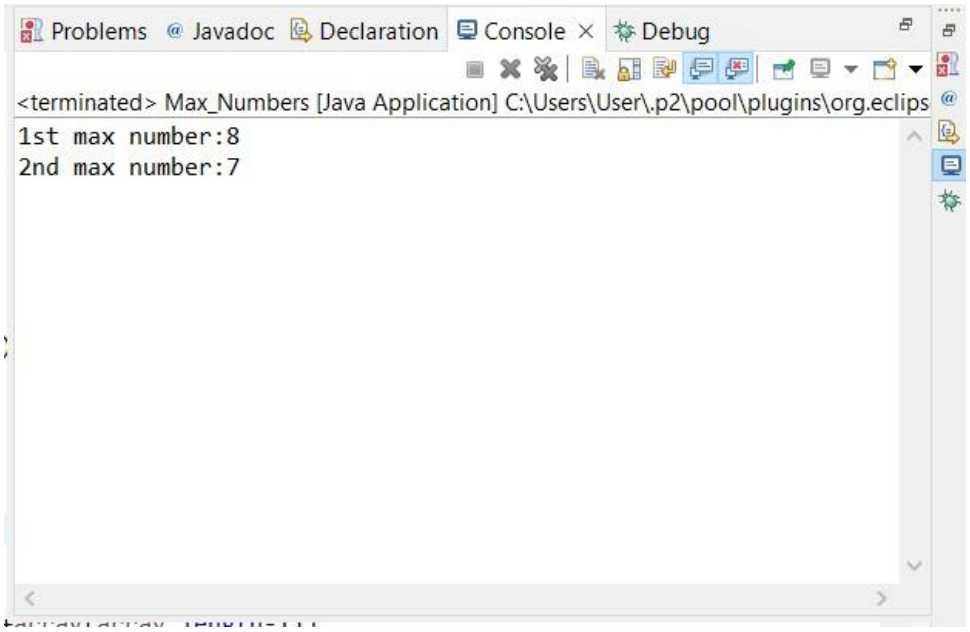
Output 2:121 is a palindrome.

Max number in array:

- Finding maximum number in array

```
public class Max_Numbers {

    public static void main(String[] args) {

        int array[]= {1,5,3,7,8,2};

        for(int i=0;i<array.length;i++) {
            for(int j=i+1;j<array.length;j++) {
                int temp=0;
                if(array[j]< array[i]) {
                    temp=array[i];
                    array[i]=array[j];
                    array[j]=temp;
                }
            }
        }
        System.out.println("1st max number:"+array[array.length-1]);
        System.out.println("2nd max number:"+array[array.length-2]);
    }

}
```

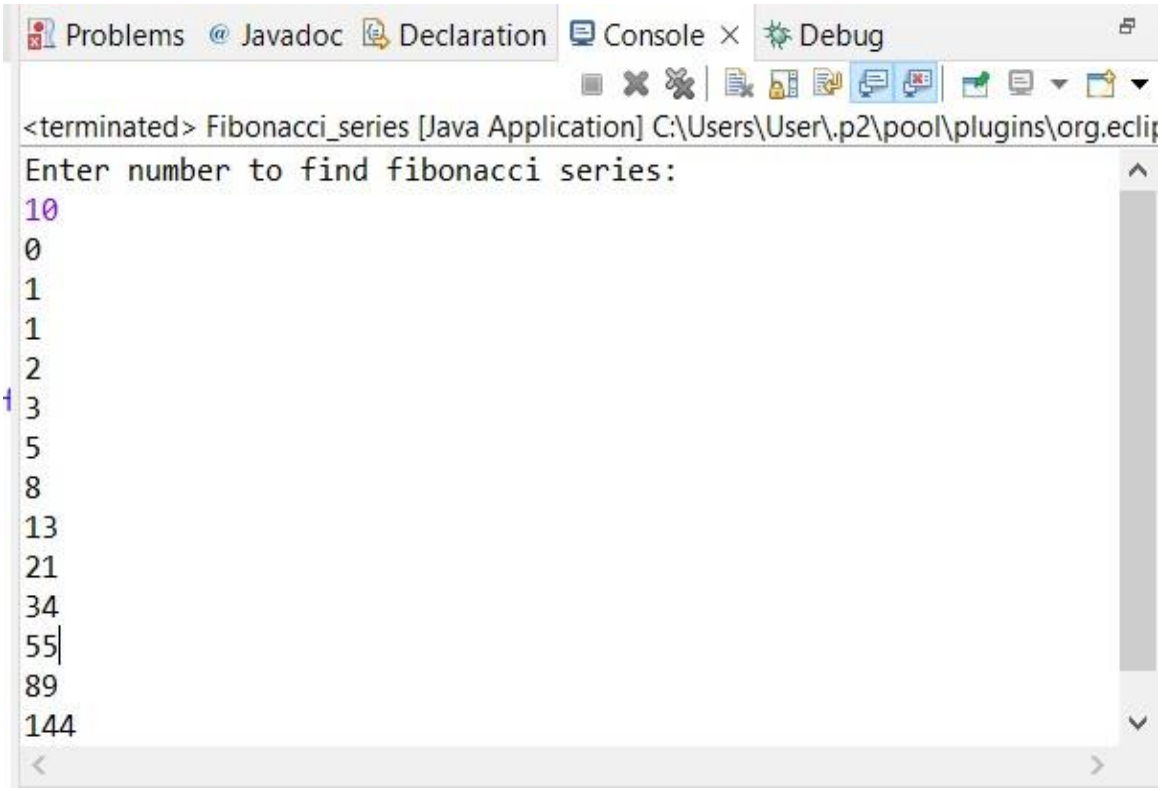
Output:



Fibonacci series:

```
public class Fibonacci_series {

	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter number to find fibonacci series:");
		int input=sc.nextInt();
		int num=0;
		int num1=1;
		System.out.println(num);
		System.out.println(num1);

		for(int i=0;i<=input;i++) {
			int num2=num+num1;
			num=num1;
			num1=num2;
			System.out.println(num2);
		}
	}

}
```

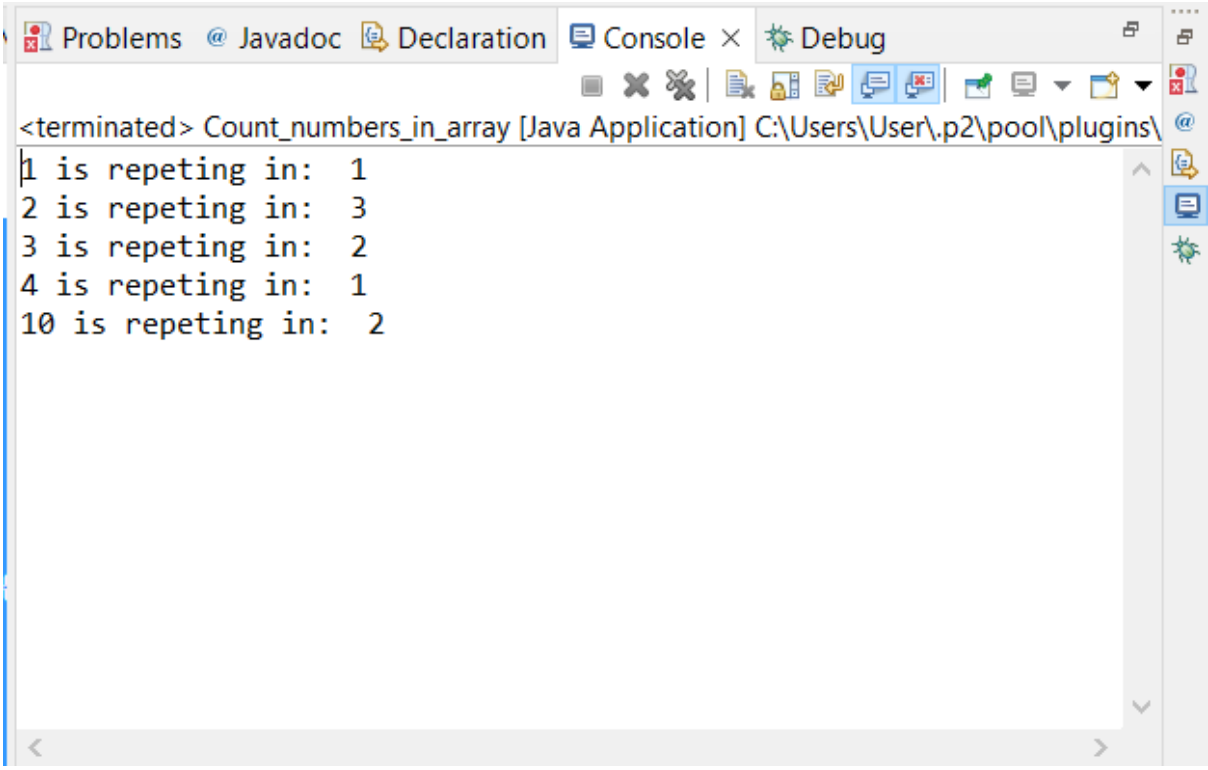
Output:



Count Numbers in array:

```
public class Count_numbers_in_array {

public static void main(String[] args) {


        int arr[]= {1,2,10,3,4,3,2,10,2};
        Arrays.sort(arr);
        int count=1;
        for(int  i=0;i<arr.length;i++) {
                for(int  j=i+1;j<arr.length;j++) {

                        if(arr[i]==arr[j]) {
                                count++;
                                i++;
                                }
                }
                System.out.println(arr[i]+" is repeting in:   "+count);
                count=1;
         }
        }
}
```

Output:

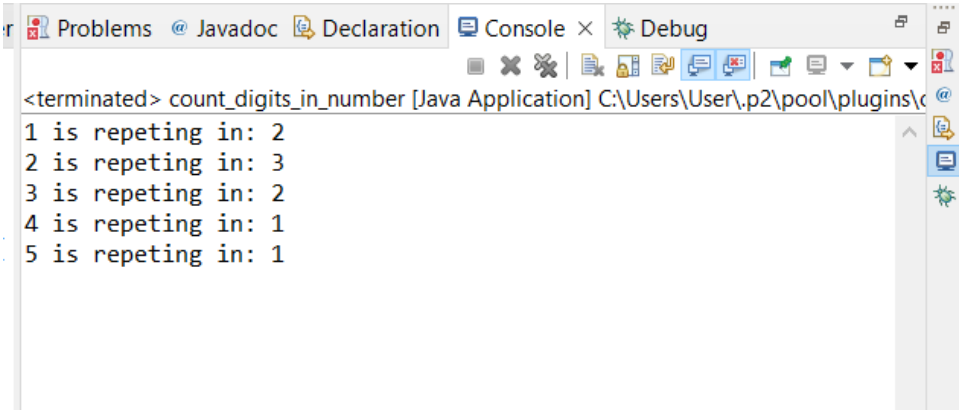


Count numbers from integer value:

```
public class count_digits_in_number {

public static void main(String[] args) {

        int  i=112233245;

        int count=0;
        int  k=i;
        while(i!=0)
        {
                count++;
                i=i/10;
        }

        int a[]=new int[count];
        for(int  j=0;j<count;j++) {
                int h=k%10;
                a[j]=h;
                k/=10;
        }
        Arrays.sort(a);
        int temp=1;
        for(int  m=0;m<a.length;m++) {
                for(int  n=m+1;n<a.length;n++) {
```

```
                    if(a[m]==a[n]) {
                        temp++;
                        m++;
                    }
                }
                System.out.println(a[m]+" is repeting in: "+temp);
                temp=1;
            }
        }

}
```

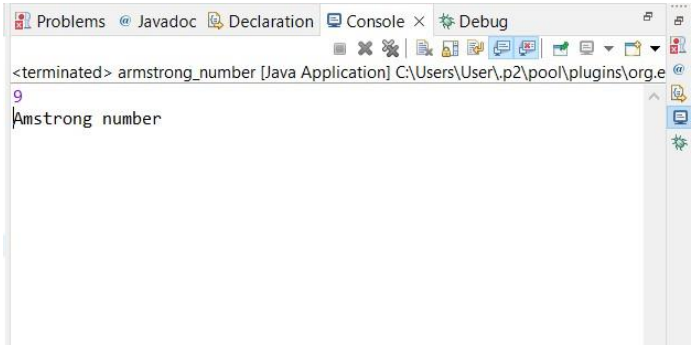
Output:



Armstrong number:

```
public class armstrong_number {

    public static void main(String[] args) {

        int num=41;
        int temp=num;
        int temp3=num;
        int count=0;
        while(num!=0) {
            int last=num%10;
            count++;
            num=num/10;
        }
        double d=0;

        while(temp!=0) {
            int temp1=temp%10;
            d+=Math.pow(temp1, count);
            temp=temp/10;
        }

        if(temp3==d) {System.out.println("Amstrong number");}
        else {System.out.println("Not a amstrong number");}
    }

}
```

Output 1:



Output