ATM

```
import java.io.*;
import java.util.*;

public class Solution {

   public static void main(String[] args) {
      /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be
named Solution. */
      float bal, draw;
      Scanner sc = new Scanner(System.in);

      draw = sc.nextFloat();
      bal = sc.nextFloat();
      if(draw > bal || draw % 5 != 0)
         System.out.println(bal);
      else
      {
         bal = bal - draw - 0.5f;
         System.out.println(bal);
      }

   }
}
```

BANK

```
import java.io.*;
import java.util.*;

public class Solution {

   public static void main(String[] args) {
      /*
       * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
       * class should be named Solution.
       */
      int m, n;
      Scanner sc = new Scanner(System.in);
      m = sc.nextInt();
      n = sc.nextInt();
      if (m % 10 == n % 10)
         System.out.println("True");
      else
         System.out.println("False");

   }
}
```

BUGGER

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        int num, prod, temp, count;
        Scanner sc = new Scanner(System.in);
        num = sc.nextInt();
        count = 0;
        while (num / 10 > 0) {
            temp = num;
            prod = 1;
            while (temp > 0) {
                prod = prod * (temp % 10);
                temp /= 10;
            }
            count++;
            num = prod;

        }
        System.out.println(count);

    }
}
```

DIGITS

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        String num;
        Scanner sc = new Scanner(System.in);
        num = sc.nextLine();
        int sum = Integer.parseInt(Character.toString(num.charAt(0)))
                + Integer.parseInt(Character.toString(num.charAt(num.length() - 1)));
        System.out.println(sum);
```

```
    }
}
```

FIRSTLETTER

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        String input, letters = "";
        Scanner sc = new Scanner(System.in);
        input = sc.nextLine();
        letters += input.charAt(0);
        int len = input.length() - 1;
        for (int i = 1; i < len; i++)
            if (input.charAt(i) == ' ' && input.charAt(i + 1) != ' ')
                letters += input.charAt(i + 1);
        System.out.println(letters);

    }
}
```

MAX MONEY

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        int houses, amount, total = 0;
        Scanner sc = new Scanner(System.in);
        houses = sc.nextInt();
        amount = sc.nextInt();
        for (int i = 1; i <= houses; i += 2)
            total += amount;
        System.out.println(total);
    }
}
```

N BY M

```
import java.io.*;
import java.util.*;

public class Solution {

   public static void main(String[] args) {
      /*
       * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
       * class should be named Solution.
       */
      int num, times;
      Scanner sc = new Scanner(System.in);
      num = sc.nextInt();
      times = sc.nextInt();
      num = num / (int) Math.pow(2, times - 1);
      System.out.println(num);
   }
}
```

PERFECT NUMBER

```
import java.io.*;
import java.util.*;

public class Solution {

   public static void main(String[] args) {
      /*
       * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
       * class should be named Solution.
       */
      int num, temp, dig;
      long sum = 0;

      Scanner sc = new Scanner(System.in);

      num = sc.nextInt();
      temp = num;

      while (temp > 0) {
         dig = temp % 10;
         sum += factorial(dig);
         temp /= 10;
      }

      if (num == sum)
         System.out.println("1");
      else
```

```
            System.out.println("0");
    }

    static long factorial(int num) {
        long fact = 1;
        while (num > 0) {
            fact = fact * num;
            num--;
        }
        return fact;
    }
}
```

REVERSE ADD

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        int num, rev;
        Scanner sc = new Scanner(System.in);

        num = sc.nextInt();
        rev = reverse(num);

        while (num != rev) {
            num = num + rev;
            rev = reverse(num);
        }

        System.out.println(num);
    }

    static int reverse(int num) {
        int dig = 0, rev = 0;
        while (num > 0) {
            dig = num % 10;
            rev = rev * 10 + dig;
            num /= 10;
        }
        return rev;
    }
}
```

SPACES

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        String str, newStr = "";
        Scanner sc = new Scanner(System.in);
        str = sc.nextLine();
        str = str.trim().replaceAll(" +", " ");
        System.out.println(str);

    }
}
```

WORD SPOIL

```
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        /*
         * Enter your code here. Read input from STDIN. Print output to STDOUT. Your
         * class should be named Solution.
         */
        String str;
        Scanner sc = new Scanner(System.in);
        str = sc.nextLine();
        int count = 0, len = str.length();
        for (int i = 0; i < len; i++)
            if (str.charAt(i) == ' ')
                count++;
        System.out.println(count + 1);
    }
}
```