Revision.

i/p

double

%

$ld = n \% 10$

Add Last Digits

You will be given two numbers of int data-type as input, and you have to print the sum of their last digits as output.

Test Case 1:

Given Inputs: 2357 48986

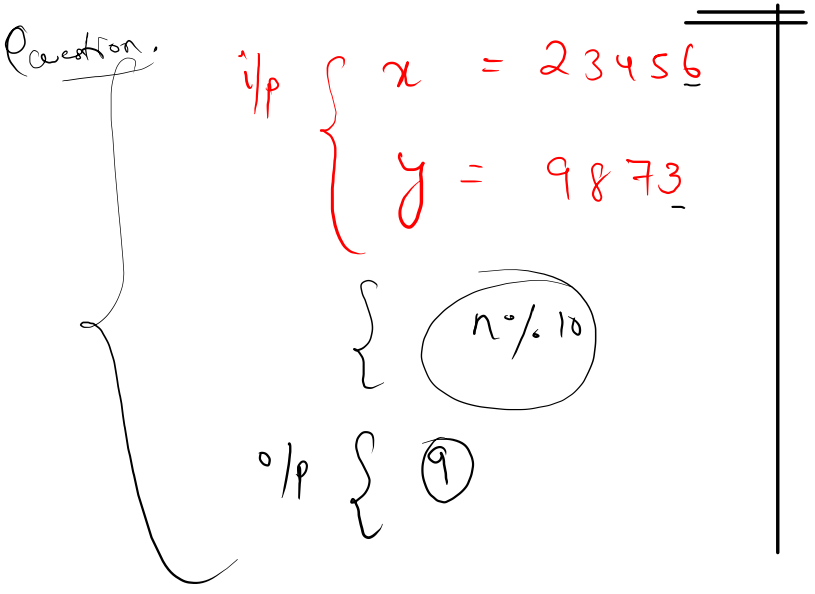
Expected Output: 13

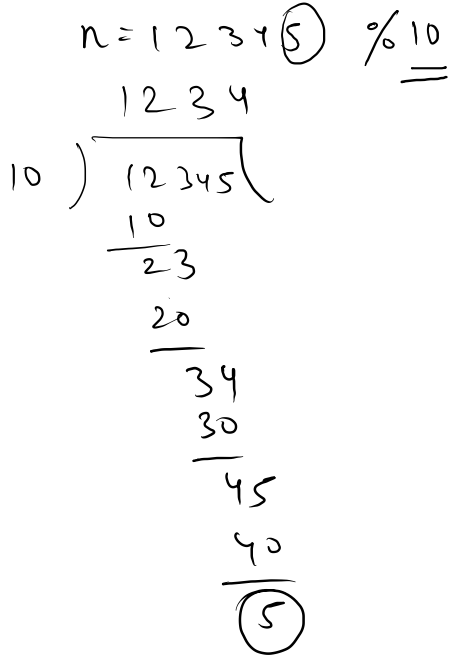
Sample Input 0

```
23456
9873
```

Sample Output 0

```
9
```



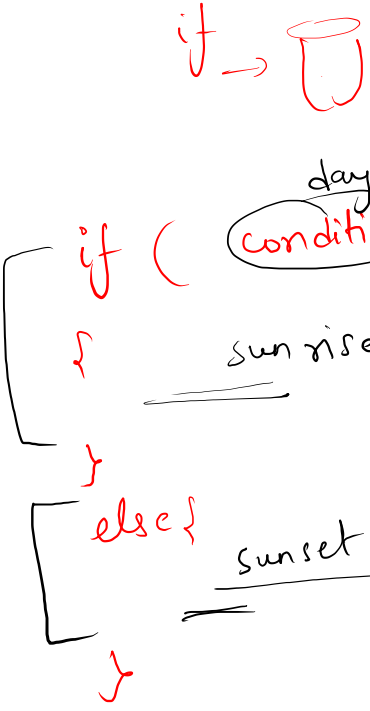


```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int x = scn.nextInt();
        int y = scn.nextInt();

        int ldx = x % 10;
        int ldy = y % 10;

        System.out.println(ldx + ldy);
    }
}
```

Conditional Statements.

keywords → reserved by java.
↳ variable name X

Syntax:



assignment operator

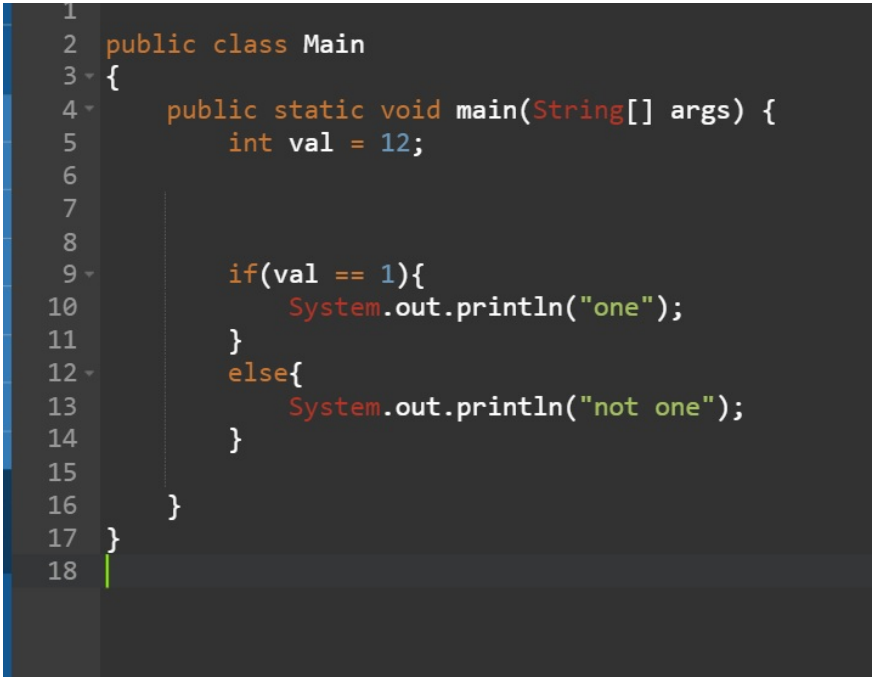
=

L = R

age = 52

equal to. (==)

10 == 10


public class Main
{
public static void main(String[] args) {
int val = 12;
if(val == 1){
System.out.println("one");
}
else{
System.out.println("not one");
}
}
}

Greater than 100 or not

Problem | Submissions | Leaderboard | Discussions

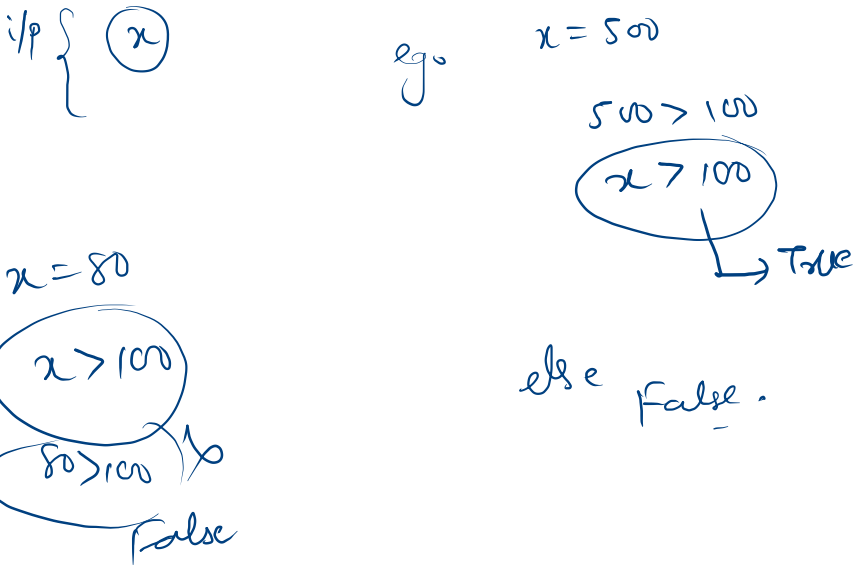
You will be given an integer as input, you have to print true if the number is greater than 100, and false otherwise.

Sample Input 0

```
120
```

Sample Output 0

```
True
```



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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int x = scn.nextInt();

        if(x > 100){
            System.out.println("True");
        }else{
            System.out.println("False");
        }

    }
}
```

xyzw

Problem | Submissions | Leaderboard | Discussions

You will be given four integer inputs x, y, z, w. Print True if x*y is equal to z*w and False otherwise.

Sample Input 0

```
5
8
10
4
```

Sample Output 0

```
True
```

i/p
x
y
z
w

40 = 40
5*8 == 10*4
True

Constraints

-2^31 <= x,y,z,w <= 2^31 - 1

$-2^{31} \le x\ y\ z\ w \le 2^{31} - 1$

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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int x = scn.nextInt();
        int y = scn.nextInt();
        int z = scn.nextInt();
        int w = scn.nextInt();

        if(x * y == z * w){
            System.out.println("True");
        }else{
            System.out.println("False");
        }

    }
}
```

Even.

$n = 24$.

$$2 \overline{)\,24\,} \quad 12$$

$$24$$

$$0 \quad \checkmark \rightarrow \text{even.}$$

odd

$$2 \overline{)\,17\,} \quad 8$$

$$16$$

$$1 \rightarrow \text{odd}$$

$n = 5$

$2 \overline{)5}$ 2

4

1

odd

%

Even or not

Problem | Submissions | Leaderboard | Discussions

You have to take an integer as input and print True if it is an even number and False otherwise.

eg 1.

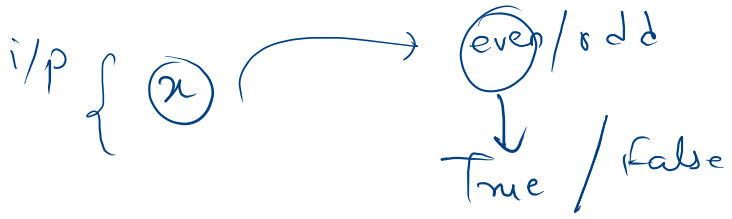
Sample Input 0

```
22
```

Sample Output 0

```
True
```

Explanation 0



eg 2. 21

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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int x = scn.nextInt();
        if(x % 2 == 0){
            //Even
            System.out.println("True");
        }else{
            //Odd
            System.out.println("False");
        }
    }
}
```

Operators

1. arth. ⟹ + − / * %

2. comparision operator ⟹

- < → less than
- > → greater than
- <= → less than equal to
- >=
- ==
- !=

Sum is less than 150 or not.

Problem | Submissions | Leaderboard | Discussions

You will be given three integer inputs x, y, z. You have to find the sum of these inputs. Print true if the sum is less than 150 and false otherwise.

Sample Input 0

```
20
30
50
```

Sample Output 0

```
True
```

i/p { x, y, z

x + y + z < 150 → True.

Language: Java 8

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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int x = scn.nextInt();
        int y = scn.nextInt();
        int z = scn.nextInt();

        if(x + y + z < 150){
            System.out.println("True");
        }else{
            System.out.println("False");
        }
    }
}
```

Adult or not 1

Problem | Submissions | Leaderboard | Discussions

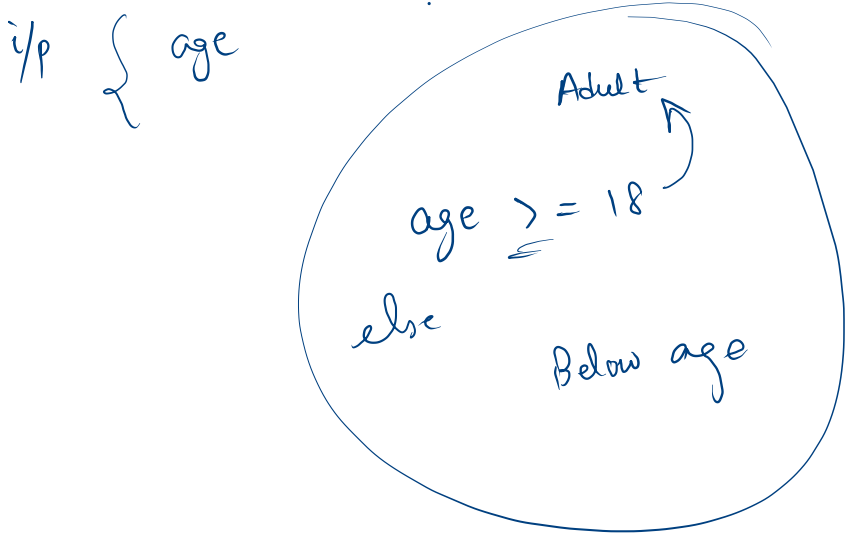
You will be given the age of a person as an integer input, you need to print "Adult" if the age is greater than or equal to 18 and print “Below age” if the age is below 18.

Sample Input 0

```
20
```

Sample Output 0

```
Adult
```



Language: Java 8

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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int age = scn.nextInt();
        if(age >= 18){
            System.out.println("Adult");
        }else{
            System.out.println("Below age");
        }
    }
}
```

Shop Discount

Problem | Submissions | Leaderboard | Discussions

A shop will give a discount of 10% on the total cost if the cost of the quantity purchased is more than 1000(a). Ask user for the number of units b. Suppose, one unit will cost 100. c. Judge and print total cost for the user in the integer format.

Sample Input 1

```
10
```

Sample Output 1

```
1000
```

Sample Input 2

```
9
```

Sample Output 2

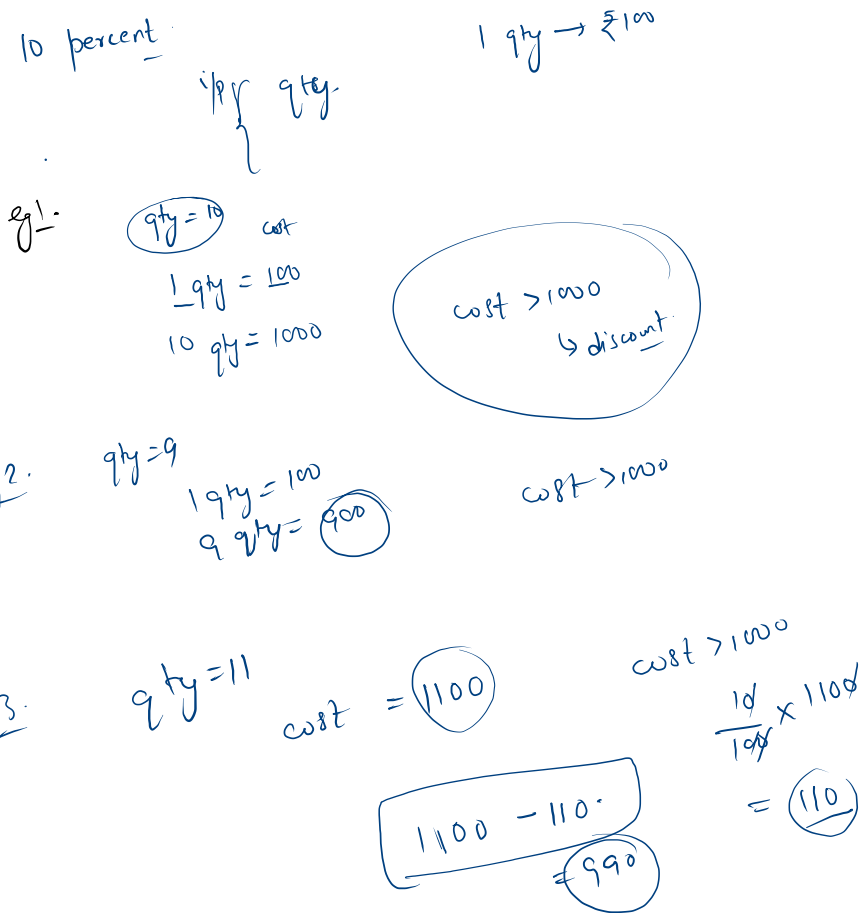
```
900
```

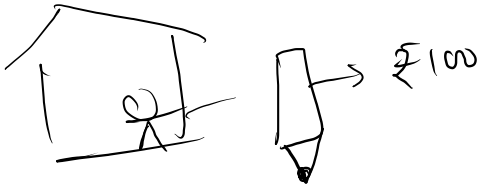
Sample Input 3

```
11
```

Sample Output 3

```
990
```





cost = ?

120 × 100

= 12000 > 1000

10% discount

6 per

600 > 1000

600

$\frac{10}{100} \times 12000 = 1200$

12000 − 1200

= 10800

> 1000

>=

eg. qty=6

Submitted Code

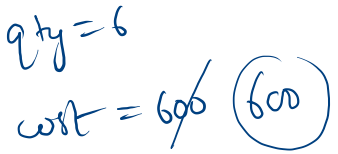
Language: Java 8

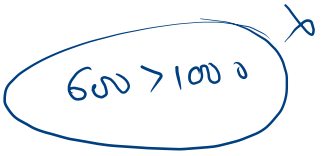
```java
import java.io.*;
import java.util.*;

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int qty = scn.nextInt();
        int cost = qty * 100;

        if(cost > 1000){        //discount
            cost = cost - (cost/10);
        }
        System.out.println(cost);
    }
}
```

qty=6

cost = 600

cost > 1000






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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int qty = scn.nextInt();
        int cost = qty * 100;

        if(cost > 1000){        //discount
            cost = cost - (cost/10);
        }else{
            cost = cost;
        }
       `System.out.println(cost);
    }
}
```

qty = 12

cost = 1200

1200 > 1000 ✓

cost = cost - cost/10

= 1200 - 120$\not{0}$ = 1080

$\not{1}\not{0}$

10% of cost

$\frac{1}{10}$ × cost = cost/10

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

public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);

        int qty = scn.nextInt();
        int cost = qty * 100;

        if(cost > 1000){        //discount
            cost = cost - (cost/10);
        }else{
            cost = cost;
        }
        System.out.println(cost);
    }
}
```