int age = 52;

String name = "Aman";

int age = 52;

integer.

double

deal with decimal value.

double wt = 402;

double ht = 602;

int
String
double.

i/p for double.

```
double y = scn.nextDouble();

System.out.println("**********");
System.out.println(y);
```

Fahrenheit and Celsius

Problem | Submissions | Leaderboard | Discussions

You will be given Fahrenheit as input that should be stored in a double variable and print your answer in Celsius of data-type double.

Input Format

In each test case, you will get Fahrenheit as input.

Constraints

Fahrenheit will be given as a double data-type.

Output Format

For each test-case, you have to print Celsius in the double format.

Sample Input 0

```
32.0
```

Sample Output 0

```
0.0
```

far & cel. } Temperature unit

fruits → kg. g.

conversion

1.5 kg → 1500 g. ?

far → cel. ?

1 kg → 1 × 1000 g

formula.

$$cel = (far - 32) \times \frac{5}{9}$$

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

public class Solution {

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

        //convert and print in celsius
        System.out.println(((far-32)*5)/9);


    }
}
```

far = 32.0

32.0 − 32

(0.0) × 5 = 0/9 = 0.0

Operator

1. Arithematic Operator

+ - * / %

Modulo operator

20 % 4 = ?

20 + 4 = 24

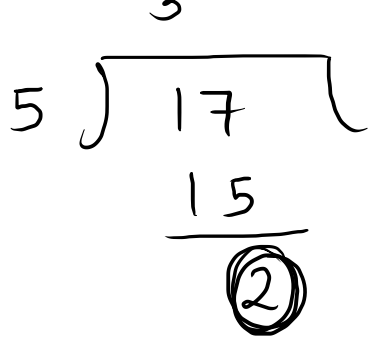
20 - 4 = 16

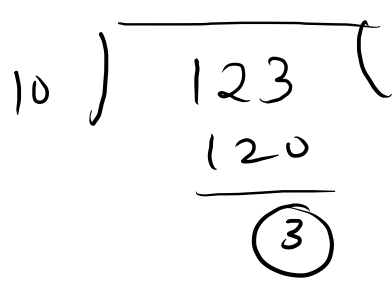
20 * 4 = 80

20 / 4 = 5

Modulo Operator } Remainder

17 % 5 = 2





22 % 5 = 2

123 % 10 = 3

$3 \% 5 = 3$

$5 \overline{)3}$

$p \% q = p \quad p < q$ { $q \neq 0$

eg.

A. $123 \% 10 = 3$

B. $57 \% 10 = 7$

C. $639 \% 10 = 9$

last digit = n % 10

$$10 \overline{)\ 57\ (\ 5}$$
$$\underline{50}$$
$$7$$

$57 \% 10 = 7$

$= 7 \int^{v}$

$$10 \overline{)\ 693\ (\ 69}$$
$$\underline{600}$$
$$93$$
$$\underline{90}$$
$$3$$

$693 \% 10 = 3.$

$123 \% 100 = 23$

$5760 \% 100 = 60$

Last 2 digit = $n \% 100$

$12345 \% 1000 = 345$

$12345 \% 10000 = 2345$

Add Last Digits

Problem | Submissions | Leaderboard | Discussions

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

Explanation: The last digit of 2357 is 7 and the last digit of 48986 is 6, and the sum of these last digits is 13. Hence the output is 13.

Sample Input 0

```
23456
9873
```

6+3=9

Sample Output 0

```
9
```

x = 5763

y = 7249

print → 7

Algo.
1. i/p for 2 no.
2. find last of 2 no.
3. add them or print

```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(); //721
        int y = scn.nextInt(); //346

        int lastX = x % 10;
        int lastY = y % 10;

        System.out.println(lastX + lastY);

    }
}
```

x = 721

y = 346

lastX = 1 721 % 10 = 1

lastY = 6 346 % 10 = 6

1 + 6 = 7

Operator.

2. Comparision Operator.

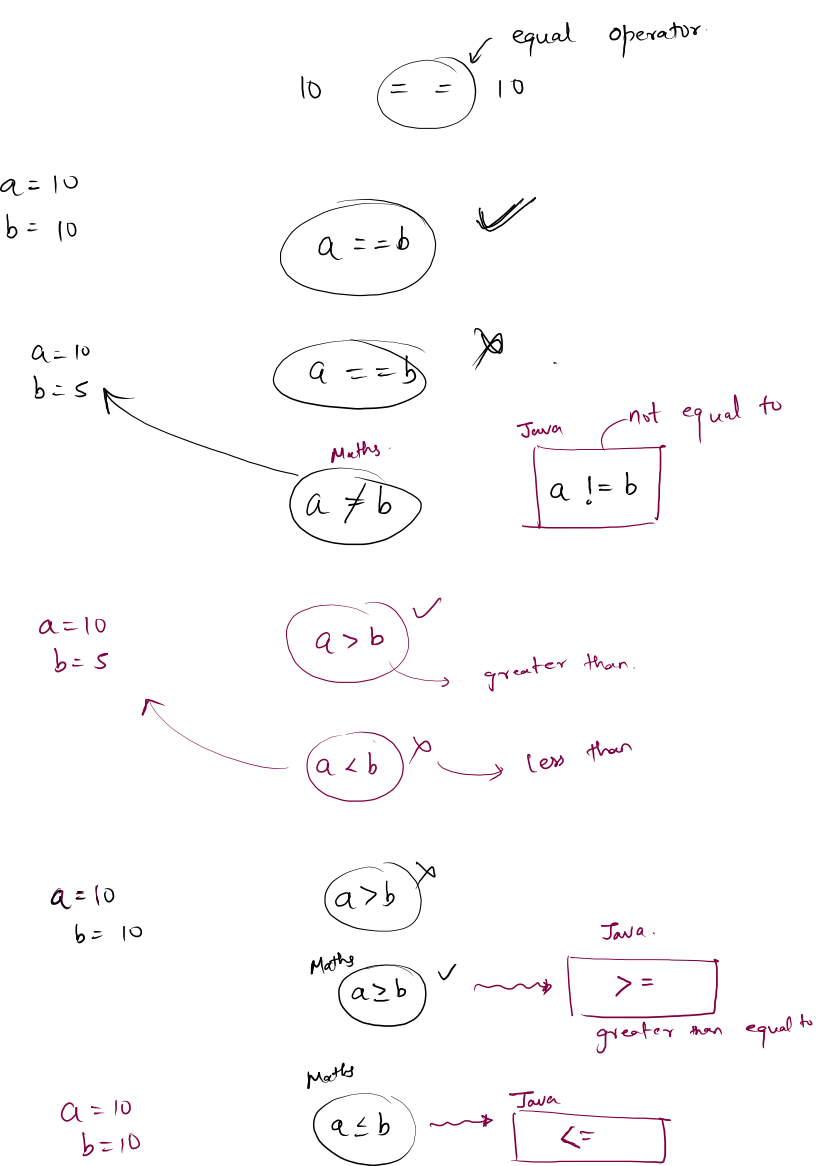
$2x + y = 7$ } Maths.

Assignment operator.

=

age = 52

L = R }


equal operator
10 = = 10
a = 10
b = 10
a == b
a = 10
b = 5
a == b
Maths
a ≠ b
Java
not equal to
a != b
a = 10
b = 5
a > b
greater than.
a < b
less than
a = 10
b = 10
a > b
Maths
a ≥ b
Java.
>=
greater than equal to
Maths
a ≤ b
Java
<=
a = 10
b = 10

Summary.

==

!=

<

>

<=

>=

common mistake

=<

meaningless.

extra info.

amanSrivastava] → camel case

aman_srivastava] → snake case

✓ → true

X → false] ✓

```java
public static void main(String[] args) {
    int a = 10;
    int b = 10;

    System.out.println(a != b);

}
```

→ false

```java
public static void main(String[] args) {
    int a = 10;
    int b = 10;

    System.out.println(a <= b);

}
```

→ true

```java
public static void main(String[] args) {
    int a = 100;
    int b = 10;

    System.out.println(a > b);

}
```

→ true

```java
public static void main(String[] args) {
    int a = 100;
    int b = 10;

    System.out.println(a < b);

}
```

→ false

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
```

Conditional Statements.

↳ flow chart.

on basis of cond^{n} we work.

age = 52

age < 18

↳ child.

Conditional Statements-

if - else.

```
if (age > 18)
{
    System.out.print("Adult");
}
else {
    System.out.print("Child");
}
```

```java
int age = 52;

if(age > 18){
    System.out.print("Adult");
}
else{
    System.out.print("Child");
}
```

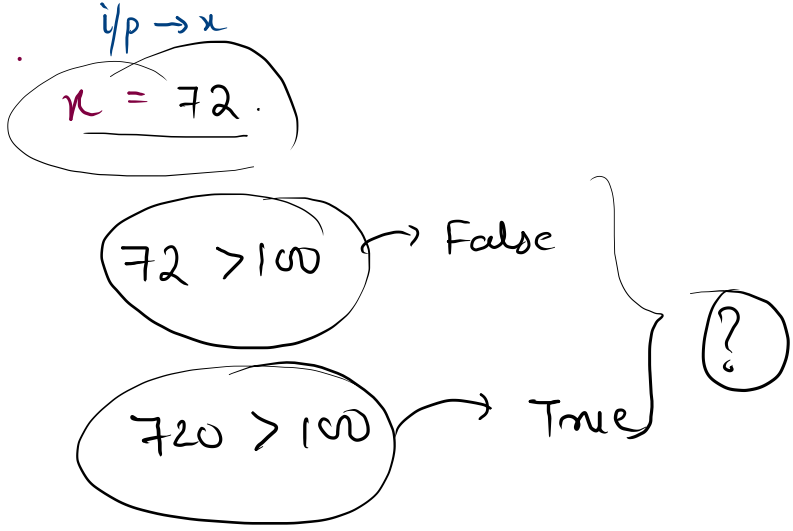
condition.
↳ true → if
false
↳ else.

Common doubts.

* else if

Can we have more than 1 if / else

Greater than 100 or not



$x > 100$
↳ True

$x \leq 100$
↳ False

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 n = scn.nextInt();

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

712

712 > 100

↳ True

68

68 > 100

↳ False

xyzw

Problem | Submissions | Leaderboard | Discussions

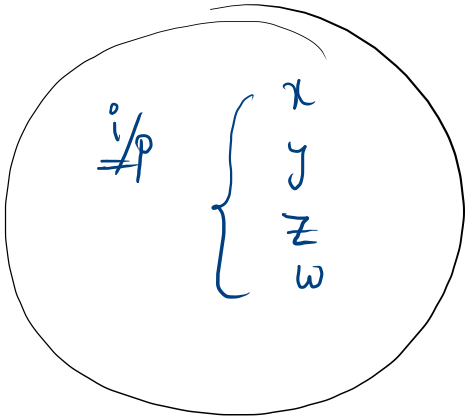
You will be given four integer inputs x, y, z, w. Print True if x*y is equal to z*w and False otherwise.

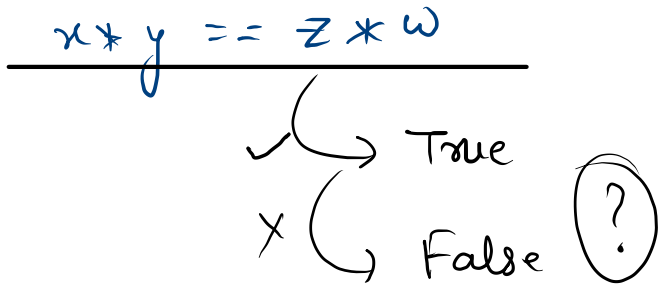
Sample Input 0

```
5
8
10
4
```

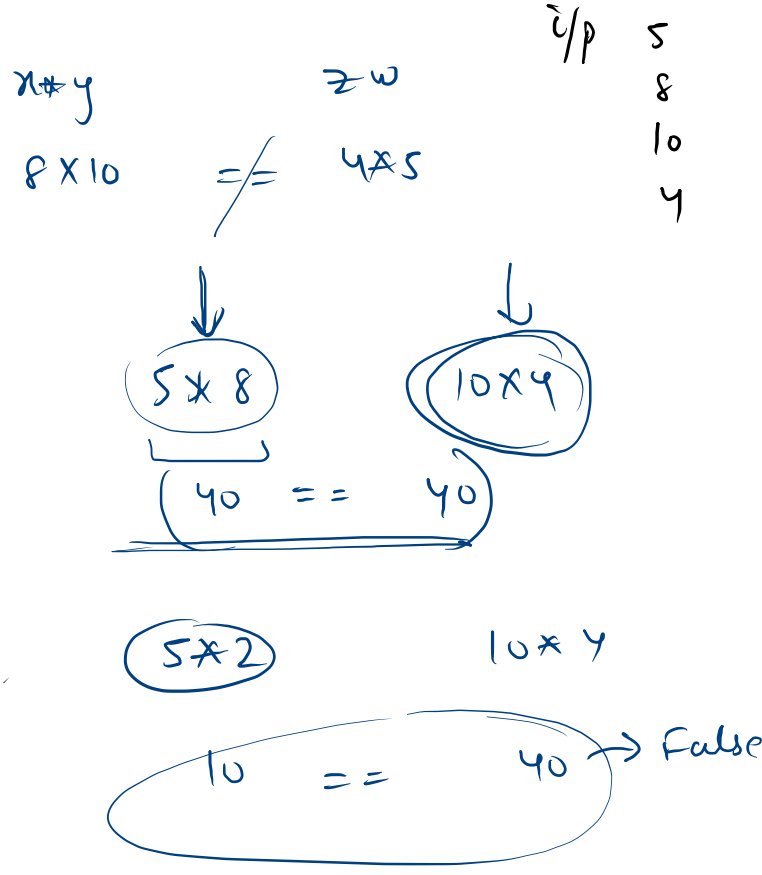
Sample Output 0

```
True
```





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

    }
}
```



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
```

Algo
1. { 3 i/p
2. x + y + z < 150
   ↳ True
   ✗ ↳ False

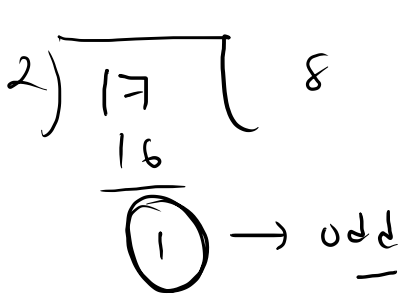
```java
import java.io.*;
import java.util.*;

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");
        }

    }
}
```

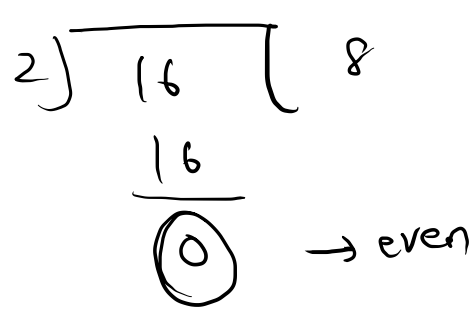
} 3 i/p

odd / even (concept)

17 ⟶ odd

16 ⟶ even





HW_Area of a circle 6

Problem | Submissions | Leaderboard

Given the diameter of the circle as input, print its area.

For pi use 22/7 instead of 3.14 or Math.pi.

Also Area=(22*radius*radius)/7

$Area = \pi r^2$

$r \rightarrow$ radius.

$\pi = 3.14$

$\pi = \frac{22}{7}$ ✓