

String Input → "Hi Everyone Welcome"

→ next() →

Hi	Everyone	Welcome
----	----------	---------

→ nextLine() →

Hi Everyone Welcome

```
'/ "static void main" must be defined in a public class Main {
```

```
    public static void main(String[] args) {
```

```
        Scanner scn = new Scanner(System.in);
```

String name = scn.next(); → Hi Everyone Welcome

```
        System.out.println(name);
```

```
}
```

```
'/ "static void main" must be defined in a public class Main {
```

```
    public static void main(String[] args) {
```

```
        Scanner scn = new Scanner(System.in);
```

Object → *(Class)* → *Object*

```
        String name = scn.nextLine();
```

```
        System.out.println(name);
```

```
}
```

Method

Comparison Operator

- $<$ (less than) \rightarrow true/false
- $>$ (Greater than)
- \leq (less than or equal to)
- \geq (Greater than or equal to)
- $=$ (equal to)
- \neq (Not Equal to)

```
'/ "static void main" must be defined in a public class Main {
    public static void main(String[] args) {
        int num = 2; ✓
        boolean result = num > 6;
        System.out.println(result); → false
    }
}
```

Memory

2	false
num	result

$7 > 4 \rightarrow$ true

$7 < 4 \rightarrow$ false

$7 \neq 4 \rightarrow$ comparing false

$7 \neq 4 \rightarrow$ true

$7 \geq 4 \rightarrow$ true

$7 \leq 4 \rightarrow$ false

$\textcircled{=}$ \rightarrow assigning value

$7 \neq 7 \rightarrow$ false

$7 = 7 \rightarrow$ true

Area and Perimeter 5

Problem

Submissions

Leaderboard

Discussions

Take length and breadth of the rectangle as input. And print area of the rectangle in the first line and perimeter of the rectangle in the second line.

Input Format



In the first line, length of the rectangle is given as input. In the second line, breadth of the rectangle is given as input.

Constraints

Inputs will be given in integer format. $1 \leq \text{length} \leq 2^{31} - 1$ $1 \leq \text{breadth} \leq 2^{31} - 1$

Output Format

In the first line, area of the rectangle should be printed. In the second line, perimeter of the rectangle should be printed.

Scanner →

Input → $\begin{cases} \text{length} \\ \text{breadth} \end{cases}$ } scn.nextInt()

Output → $\text{area} = l \times b$ ✓
 $\text{perimeter} = 2 * (l + b)$ ✓

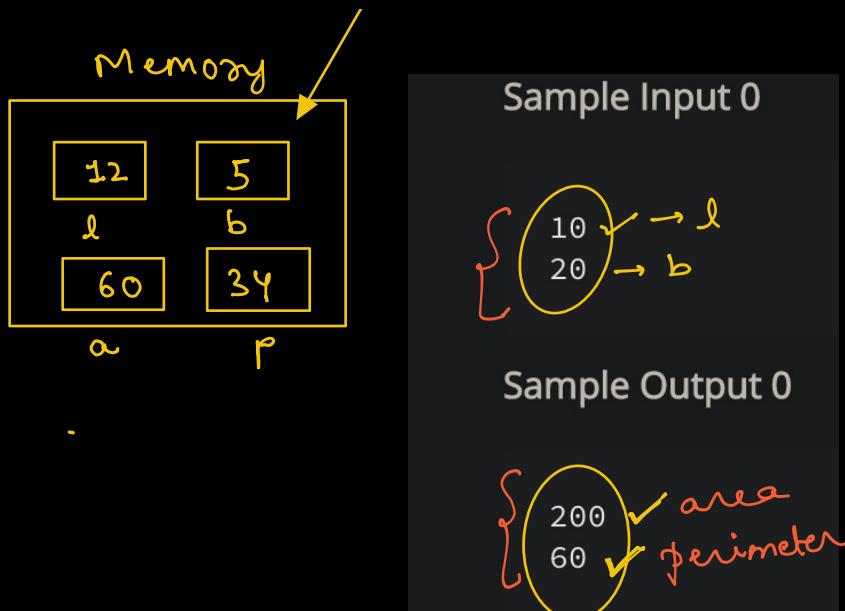
$\text{int length} = \text{scn.nextInt()}$ print (area)
 $\text{int breadth} = \text{''}$ print (perimeter)

/* Enter your code here. Read input from S

Scanner scn = new Scanner(System.in);

int length = scn.nextInt();
int breadth = scn.nextInt();

✓ int area = length * breadth; → $12 * 5 = 60$
✓ int perimeter = 2 * (length + breadth);
System.out.println(area); 60 ↳ $(12+5)$
System.out.println(perimeter); ✓ 17×2
 = 34



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.

double f = input scn.nextDouble

$$\begin{aligned} \text{double C} &= (f - 32) * \frac{5}{9} \\ &= ((f - 32) * 5) / 9 \end{aligned}$$

/ → division → quotient

$$\begin{array}{r} 9 \sqrt{5} \\ \underline{-0} \\ \hline 5 \end{array}$$

0 → quo
5 → rem

```

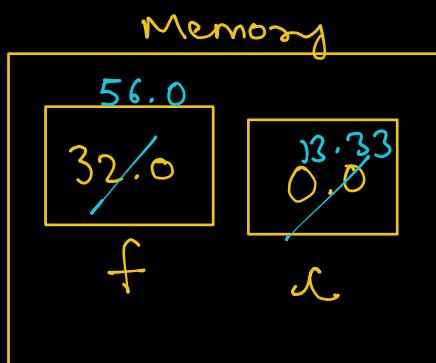
/* Enter your code here. Read input from STDIN. Print
Scanner scn = new Scanner(System.in);
double Fahrenheit = scn.nextDouble();
double Celsius = ((Fahrenheit - 32) * 5) / 9;
System.out.println(Celsius);
}

```

$\frac{56.0 - 32}{32.0 - 32} = \frac{24}{32} * 5 = \frac{120}{9}$

$0 \times 5 = 0 / 9 = 0.0$

0.0



Sample Input 0
32.0

Sample Output 0
0.0 ✓

12.33

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

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.

Input Format
In the first line, first number will be given as input. In the second line, second number will be given as input.

Constraints
Both the numbers will be positive and will be in integer format.

Output Format
Print the sum in the line.

$$\begin{array}{r} 235 \rightarrow 7 \\ 48986 \end{array}$$

$$\begin{array}{r} 2357 \\ 48986 \\ \hline 76 \end{array}$$

$$a = 7 \checkmark$$

$$b = 6 \checkmark$$

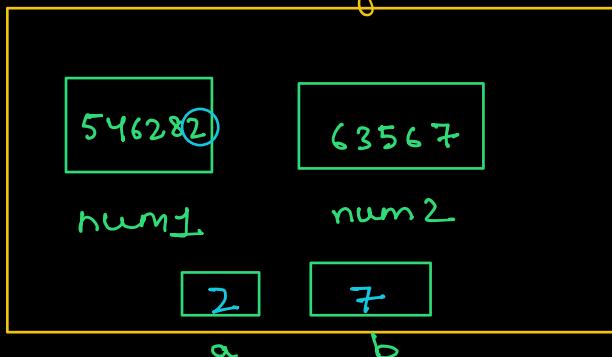
$$\text{print}(a+b);$$

```

Scanner scn = new Scanner(System.in);
int num1 = scn.nextInt();
,, num2 = ''
int (a) = num1 % 10;
int b = num2 % 10;
print (a+b);

```

Memozy



```
Scanner scn = new Scanner(System.in);
```

```
int num1 = scn.nextInt();
```

```
int num2 = scn.nextInt();
```

```
int a = num1 % 10; →
```

```
int b = num2 % 10;
```

```
System.out.println(a+b); → 9
```

Logical Operators

- And Logic Operator (`&&`)
- OR logic Operator (`||`)
- Not logic Operator (`!`)

And Logic Operator (`&&`)

cond1 $\&\&$ cond2

cond1 cond2 Result

T	T	T
T	F	F
F	T	F
F	F	F

T & T → T

Every place F

a = 10, b = 20, c = 20

condition1: a < b $\rightarrow 10 < 20 \rightarrow T$
condition2: b == c $\rightarrow 20 == 20 \rightarrow T$

if (condition1 $\&\&$ condition2)
d = a+b+c
 $= 10 + 20 + 20 = 50$

// Since both the conditions are true
d = 50. ✓

```

int age = 24;
int salary = 950;

boolean result;
// true      T      T
result = (age >= 18 && salary > 600);
System.out.println(result); → true

// false      T      F
result = (age >= 18 && salary > 1000);
System.out.println(result); → false

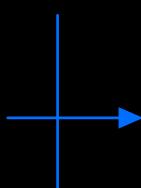
```

OR logic (||)

Cond 1 || Cond 2

cond1	cond2	Result
T	T	T
T	F	T
F	T	T
F	F	F

$\checkmark \quad \checkmark \quad \checkmark$
 $a = 10, b = 20, c = 20$
 condition1: $a < b \rightarrow 10 < 20 \rightarrow T$
 condition2: $b > c \rightarrow 20 > 20 \rightarrow F$
 $\text{if}(\text{condition1} \text{ || } \text{condition2})$
 $d = a+b+c \checkmark$
 // Since one of the condition is true
 $d = 50. \checkmark$


 $F \text{ || } F \rightarrow F$
 Other place T

```

public static void main(String[] args) {
    int age = 24;
    int salary = 950;

    boolean result;

    result = (age >= 18 || salary > 1000);
    System.out.println(result); // True

    result = (age >= 30 || salary > 1000);
    System.out.println(result); // False

```

Not Logic (!)

$a = 10, b = 20$

$\neg(a < b) \rightarrow \text{False}$

$\neg(a > b) \rightarrow \text{True}$

$\neg\neg a \equiv a$

Cond . Result

T	F
F	T

$T \rightarrow F$

$F \rightarrow T$

$\neg F$

Challengers

Boolean ans =
 $3 > 2 \text{ && } 14 > 3$

$\top \qquad \top$

True

Boolean ans =
 $40 > 3 \text{ && } 40 > 50$

$\top \qquad F$

False

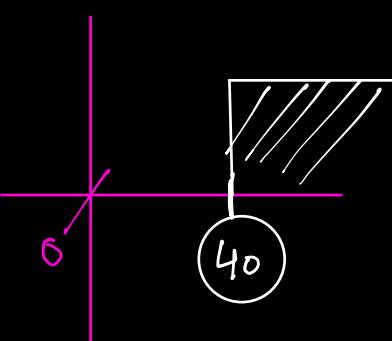
Boolean ans = Cond¹ $40 >= 40$ Cond² $50 >= 2 * 25$

$\checkmark \top \top$

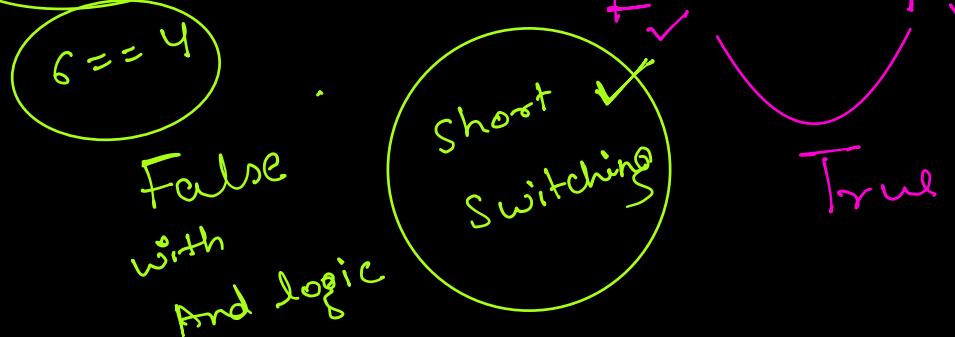
True

short switching

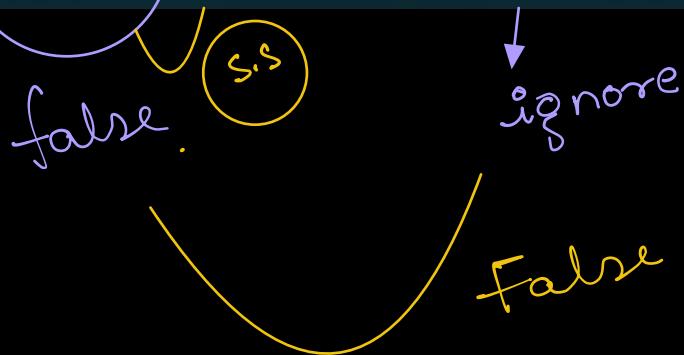
True with OR



$$\text{Boolean ans} = \frac{(2 \times 3 == 4) \&\& 6 \times 4 == 9}{(4 > 2)}$$



$$\text{Boolean ans} = \frac{(4 > 5) \&\& (3 > 5 \&\& 80 == 2 \times 40)}{\text{S.S}}$$



$$\text{Boolean ans} = \frac{(20 \times 5 == 100 \mid\mid 10 == 10) \&\& (30 \times 2 == 60 \mid\mid 40 > 30)}{\text{T}}$$

T $\&\&$ *T* \rightarrow *T*

Boolean ans = !(30 > 20)

T

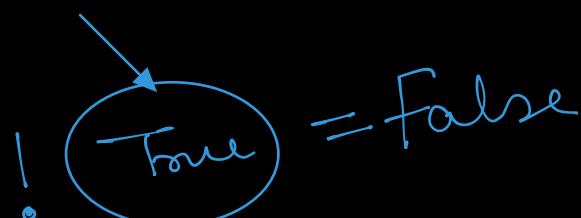


Boolean ans = !(30 == 30)

True

False

Boolean ans =
!(30 >= 20) || 40 >= 10)

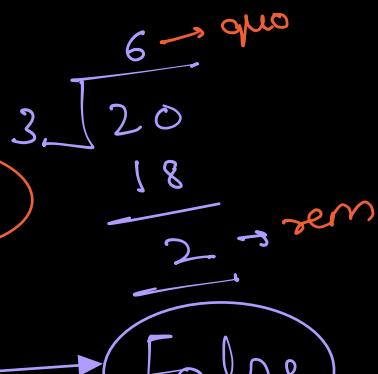


Boolean ans =
!(20 * 4 + 40 >= 100) || 20 >= 10) &&

S.S

False

Boolean ans =

$$\text{!}((20 \% 3 == 2) \text{ & } 2 == 2)$$


Boolean ans =

$$(\text{!}(40 == 40) \text{ && } 80 > 36)$$


Boolean ans =

$$(\text{!}(50 > 20) \text{ || } 90 \times 2 \times 45) \text{ && } (30 != 2 \times 15))$$
