

<b>Status</b>	Finished
<b>Started</b>	Sunday, 2 November 2025, 11:12 AM
<b>Completed</b>	Sunday, 2 November 2025, 11:31 AM
<b>Duration</b>	18 mins 39 secs

Question **1**

Correct

A year Y will be passed as input. The program must find if the given year is a leap year or not.

- If it is leap year, the program must print yes else it should print no

**Note:** A year is a leap year if it is divisible by 4. If it is a century, then it should be divisible by 400.

The **pseudocode** is as given below:

```
if year is divisible by 400 then is_leap_year
else if year is divisible by 100 then not_leap_year
else if year is divisible by 4 then is_leap_year
else not_leap_year
```

**Example Input/Output:**

If 2000 is the input, the program must print yes

If 2100 is the input, the program must print no

If 2013 is the input, the program must print no

**Input Format:**

A year as a number is passed to the standard input.

**Output Format:**

The string value as per the conditions above printed to the standard output.

**Boundary Conditions:**
$$0 < Y \leq 8000$$

Input:

1980

Expected Output:

yes

**For example:**

Input	Result
1980	yes

**Answer:** (penalty regime: 0 %)

```
1 #include <stdio.h>
2 int main()
3 {
4     int year;
5     scanf("%d",&year);
6     if(year%400==0)
7         printf("yes");
8     else if(year%100==0)
9         printf("no");
10    else if(year%4==0)
11        printf("yes");
12    else
13        printf("no");
14 }
```

	Input	Expected	Got	
✓	1980	yes	yes	✓

Passed all tests! ✓

Question **2**

Correct

An expression E is passed as an input to the program. The expression will contain three numbers A, B and C, one equal symbol and one of the mathematical operators + - \* /

But the given mathematical operator is incorrect and hence the expression is not valid. Hence the program must identify the correct operator and print that as the output.

**Input Format:**

First line will contain the expression E

**Output Format:**

First line will contain the correct mathematical operator

**Sample Input/Output:****Example 1:**

Input:

5-4=20

Output:

\*

Explanation:

Only 5 multiplied with 4 gives 20. Hence - must be replaced with \*.

**Example 2:**

Input:

999+9=111

Output:

/

Explanation:

Only 999 divided by 9 gives 111. Hence + must be replaced with /.

**For example:**

Input	Result
5-4=20	*
999+9=111	/

**Answer:** (penalty regime: 0 %)

```

1  #include <stdio.h>
2  int main()
3  {
4      int a,b,c;
5      char op , eq;
6      scanf("%d%c%d%c%d", &a, &op, &b, &eq, &c);
7      if(a+b==c)
8          printf("+");
9      else if(a-b==c)
10         printf("-");
11     else if(a*b==c)
12         printf("*");
13     else if(a/b==c)
14         printf("/");
15 }
```

	Input	Expected	Got	
✓	5-4=20	*	*	✓
✓	999+9=111	/	/	✓

Passed all tests! ✓