

<b>Status</b>	Finished
<b>Started</b>	Saturday, 1 November 2025, 7:58 PM
<b>Completed</b>	Saturday, 1 November 2025, 8:13 PM
<b>Duration</b>	15 mins 37 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      int yr;
4      scanf("%d",&yr);
5      if(yr%400==0){
6          printf("yes\n");
7      }
8      else if(yr%100==0){
9          printf("no\n");
10     }
11     else if(yr%4==0){
12         printf("yes\n");
13     }
14     else{
15         printf("no\n");
16     }
17     return 0;
18
19 }
```



	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      int A,B,C;
4      char op;
5      scanf("%d%c%d=%d",&A,&op,&B,&C);
6      if(A+B==C){
7          printf("+\n");
8      }
9      else if(A-B==C){
10         printf("-\n");
11     }
12     else if(A*B==C){
13         printf("*\n");
14     }
15     else if(B!=0 && A/B==C){
16         printf("/\n");
17     }
18     return 0;
19
20
21 }
```

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

Passed all tests! ✓

