

<b>Status</b>	Finished
<b>Started</b>	Sunday, 9 November 2025, 11:02 AM
<b>Completed</b>	Sunday, 9 November 2025, 11:14 AM
<b>Duration</b>	12 mins 22 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
3  int main()
4  {
5      int n;
6      scanf("%d",&n);
7      if((n%400==0) || (n%4==0&& n%100!=0))
8      {
9          printf("yes");
10     }
11     else
12     {
13         printf("no");
14     }
15     return 0;
16 }
```

	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
3
4  int main()
5  {
6      int a,b,e;
7      char c,d;
8      scanf("%d%c%d%c%d",&a,&c,&b,&d,&e);
9      if(e==a+b)
10     {
11         printf("+");
12     }
13     else if(e==a-b)
14     {
15         printf("-");
16     }
17     else if(e==a*b)
18     {
19         printf("*");
20     }
21     }
22     else
23     {
24         printf("/");
25     }
26     return 0;
27
28 }
```

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

Passed all tests! ✓

