Status	Finished
Started	Friday, 31 October 2025, 7:43 PM
Completed	Friday, 31 October 2025, 8:04 PM
Duration	21 mins 5 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 <= 8000

Input:

1980

Expected Output:

yes

For example:

Input	Result
1980	yes

Answer: (penalty regime: 0 %)

```c
#include<stdio.h>
int main(){
int a;
scanf("%d", &a);
if((a%400==0)||(a%4==0 && a%100!=0)){
printf("yes\n");
}
else{
printf("no\n");
}
return 0;
}
```

	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 %)

```c
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int main(){
    char a[20];
    scanf("%s", a);
    int n1,n2,n3;
    char op1,op2;
    sscanf(a,"%d%c%d%c%d", &n1, &op1, &n2, &op2, &n3);
    if(n1+n2==n3){
        printf("+\n");
    }
    else if(n1-n2==n3){
        printf("-\n");
    }
    else if(n1*n2==n3){
        printf("*\n");
    }
    else if(n2!=0&&n1/n2==n3){
        printf("/\n");
    }
   return 0;

}
```

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

Passed all tests! ✓