

```
switch_5.c

1 #include <stdio.h>
2
3 // write a program to check leap year using switch case in C.
4
5 int main() {
6     int year;
7     int isLeap;
8
9     printf("Enter a year: ");
10    scanf("%d", &year);
11
12    // Determine if the year is a leap year
13    if ((year % 4 == 0 && year % 100 != 0) || (year % 400 == 0)) {
14        isLeap = 1; // Leap year
15    } else {
16        isLeap = 0; // Not a leap year
17    }
18
19    switch (isLeap) {
20        case 1:
21            printf("%d is a leap year.\n", year);
22            break;
23        case 0:
24            printf("%d is not a leap year.\n", year);
25            break;
26        default:
27            printf("Error determining if %d is a leap year.\n", year);
28            break;
29    }
30
31    return 0;
32 }
```