```
File - D:\cpl\2023-cpl-coding-0\2-if-for-array\leap-if-else.c
 1 //
 2 // Created by hfwei on 2023/10/6.
 3 //
 5 #include <stdio.h>
 7 int main(void) {
     int year = 0;
 9
     scanf("%d", &year);
10
11
     // TODO: leap year or not
12
     // boolean variable
13
     int leap = 0;
14
     // TODO (hfwei): arrow code
15
     if (year % 4 == 0) {
       if (year % 100 == 0) {
16
17
          if (year % 400 == 0) {
18
           leap = 1;
          } else { // can be removed
19
20
           leap = 0;
          }
21
22
        } else {
23
         leap = 1;
24
25
     } else { // can be removed; // easier case goes first
26
       leap = 0;
27
28
29
     if (leap == 0) {
        printf("%d is a common year\n", year);
30
31
     } else {
32
        printf("%d is a leap year\n", year);
33
34
35
     return 0;
36 }
```