

# Assignment #1

## Old Enough

A bar or pub allows people to get in only if they are 20 years or older. Write a program that acts as a door guard, asking the user for his or her date of birth, determining the person's age, and deciding whether to let the person in. You may hard-code the current year as a constant value to use in your age calculations.

Two sample runs shown below.

### Sample Run #1

First Name: Suthep

Year of Birth: 1964

Hi, Suthep, you are 50 years old. Welcome to Cheers bar.

Bye!

### Sample Run #2

First Name: Jane

Year of Birth: 1995

Hi, Jane, you are 19 years old. You must be 20 to enter this bar, please come back in 1 years.

Bye!

Old\_Enough.c

```
1 #include <stdio.h>
2
3 int main(){
4     char FirstName[10];
5     int age, Year_of_Birth, current_year = 2014;
6     printf("First Name:");
7     scanf("%s", FirstName);
8     printf("Year of Birth:");
9     scanf("%d", &Year_of_Birth);
10    age = current_year - Year_of_Birth;
11    if (age >= 20) {
12        printf("Hi, %s, you are %d years old. Welcome to Cheers bar.\n", FirstName, age);
13    } else {
14        int years_to_wait = 20 - age;
15        printf("Hi, %s, you are %d years old. You must be 20 to enter this bar, please come back in %d years.\n", FirstName, age, years_to_wait);
16    }
17    printf("Bye!\n");
18    return 0;
19 }
20
21
```

C:\Users\student\Desktop\Old\_Enough.exe

```
First Name:Suthep
Year of Birth:1964
Hi, Suthep, you are 50 years old. Welcome to Cheers bar.
Bye!

Process exited after 30.07 seconds with return value 0
Press any key to continue . . .
```

C:\Users\student\Desktop\Old\_Enough.exe

```
First Name:Jane
Year of Birth:1995
Hi, Jane, you are 19 years old. You must be 20 to enter this bar, please come back in 1 years.
Bye!

Process exited after 26.92 seconds with return value 0
Press any key to continue . . .
```

Compile Log Debug Find Results Close

Compilation results...

```
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- Errors: 0
- Warnings: 0
- Output Filename: C:\Users\student\Desktop\Old_Enough.exe
- Output Size: 128.7705078125 KiB
- Compilation Time: 0.16s
```