

The Content Of This Assignment Comes Primarily From Material Of The Required Textbook Starting Out With C++ From Control Structures through Objects Ninth Edition by Tony Gaddis.

Chapter 4

Useful Reading For This Assignment Comes From Material At The External Web Site

www.tutorialspoint.com

https://www.tutorialspoint.com/cplusplus/cpp_basic_input_output.htm

https://www.tutorialspoint.com/cplusplus/cpp_decision_making.htm

Restaurant Selector

Program With Multiple Boolean Conditions

Purpose. Learn to write decision logic with if, if else, else if, and boolean operators.

You have a group of friends coming to visit, and you want to take them out to eat at a local restaurant. You aren't sure if any of them have dietary restrictions, but your restaurant choices are as follows:

Joe's Gourmet Burgers — Vegetarian: No, Vegan: No, Gluten-Free: No

Main Street Pizza Company — Vegetarian: Yes, Vegan: No, Gluten-Free: Yes

Corner Cafe — Vegetarian: Yes, Vegan: Yes, Gluten-Free: Yes

Mama's Fine Italian — Vegetarian: Yes, Vegan: No, Gluten-Free: No

The Chef's Kitchen — Vegetarian: Yes, Vegan: Yes, Gluten-Free: Yes

Requirements. Write a C++ program that asks whether any members of your party are vegetarian, vegan, or gluten-free, then displays only the restaurants that you may take the group to. The program should:

1. Prompt the user to enter if anyone in the party is a vegetarian
2. Prompt the user to enter if anyone in the party is a vegan
3. Prompt the user to enter if anyone in the part is gluten free
4. Output the possible restaurants, if any, that everyone in the party can dine at.

Program I/O.

Input: three values from the console keyboard. The three input values should be strings. Each input value string should only be either the string "yes" or the string "no". No other input values other than the strings "yes" and "no" should be allowed.

Output: String values that have the restaurants that everyone in the party can dine at.

Examples:

Here is one example of the programming running, with the user's input in blue:

Is anyone in your party a vegetarian? yes

Is anyone in your party a vegan? no

Is anyone in your party gluten-free? yes

Here are your restaurant choices:

Main Street Pizza Company

Corner Cafe

The Chef's Kitchen

Here is another example of the programming running, with user input colored in blue:

Is anyone in your party a vegetarian? yes

Is anyone in your party a vegan? yes

Is anyone in your party gluten-free? yes

Here are your restaurant choices:

Corner Cafe

The Chef's Kitchen

Examples

These example programs have programming inside them that you will find useful to learn from, and to get programming ideas from, when writing your C++ programs for the programming assignments given in the Exercises section above. You can download these example programs, and then view them or run them if you like.

ifWithOrOperatorLoan.cpp ifWithAndOperatorLoan.cpp nestedIfElseLoan.cpp
nestedIfElseGrade.cpp

yourAge.cpp itsAboutYou.cpp oneToTen.cpp gradeB.cpp passingGrade.cpp
passNoPass.cpp Rumpelstiltskin.cpp