

CSC 1300 LAB 6 GOLD

**Fall 2023**

## Concepts

* Menu based program
* Functions, returning data from a function, sending data to a function
* Loops, nested loops
* Switch statement
* Running total
* Output with ASCII art

## Dracula’s Castle



Image copied from <https://wallpapercave.com/halloween-vampire-wallpapers>

## Description / Specifications

1. **You may complete this assignment by yourself, or you may choose to write this program with one partner** and practice paired programming. If you do, both students must agree to either Gold or Purple lab, must write both names in the comment block at the top, and must name the zip file with both usernames. Note that you may not share your code with anyone other than the one partner you select.
2. Create a **Lab6Gold\_yourTTUusername** folder.
3. Create a source file named **lab6.cpp**.
4. Write a menu-based game where the user must navigate through Dracula’s castle following the rules in the **DO**/**DON’T** box below.

Helpful website: One of the things you must do is display some ASCII art to the screen. You can get ideas & help from here: Get ideas & help from here: <http://patorjk.com/software/taag/#p=display&f=Big%20Money-ne&t=Gringotts>

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| --- | --- |
| **DO** | **DON’T** |
| Do give the user a at least one menu of choices, validate the user’s choice, and use a switch statement to execute the code for their choice. | Don’t include any C++ libraries that we haven’t talked about in class. |
| Do create at least two programmer-defined functions. You must send data from the main function to at least one of these functions and one of the functions must return data. | Don’t create any structs or classes. |
| Do use at least one nested for loop (a for loop inside of a for loop). | Don’t use vectors. |
| Do print at least one ASCII art to the screen. | Don’t use pointers. |
| Do have at least one accumulator that keeps track of a running total throughout your program, which should be printed at the end. | Don’t create any data structures other than arrays (Arrays are optional). |
| You may use arrays, but arrays are not required. You may use input or output files, but they are not required. |  |
| Do create a **comment block** at the top containing the filename, author (you), date, and make sure to describe the purpose of your program. |  |
| Do include some **comments** throughout your code to explain major sections. |  |
| Do use good programming practices and make your output readable (does the user know what to do?) as well as your code. |  |

## What to Turn In

**Compress/zip** the **Lab6Gold\_yourTTUusername** folder and upload it to the ilearn assignment folder named **Lab 6**.