

Project 1_v2

<Millionaire trivia>

CSC5-40717

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Introduction:

This is a trivia based on the idea from the TV show "Who wants to be a Millionaire".

The game is really simple consisting of 10 questions and a reward for each, the game ends if you answer incorrectly even once.

You choose your answer by choosing either one of A, B, C or D.

But to play the game you have to go through a qualifier round which has 6 questions, all questions are displayed in succession and you have 60 seconds to get 4 correct answers out of the 6.

Summary:

Size of code: ~400 lines

Number of variables: 28+-1

Pseudo Code:

Menu is displayed using function

3 choices are displayed and each is controlled by a switch statement.

If choice 3 is selected, game quits.

If choice 2 is selected, Game rules are displayed through file.

If file is available, rules are displayed.

Else Error is displayed.

If choice 1 is selected, qualifier game begins using a function.

6 questions are displayed one after another and the user prompt for an answer.

The time taken for the 6 questions to be answered is recorded.

If time taken is less than 60 seconds,

If correct answers are greater or equal to 4,

Main Event game starts using the game() function.

Else game stops and user is disqualified, results are outputted in file.

Else user is disqualified for taking too much time, results are outputted to file.

Game() function starts Main Event

First question is displayed.

If answer is correct.

Second question is displayed.

If answer is correct.

Third question is displayed.

If answer is correct.

Fourth question is displayed.

If answer is correct.

Fifth question is displayed.

If answer is correct.

Sixth question is displayed.

If answer is correct.

Seventh question is displayed.

If answer is correct.

Eighth question is displayed.

If answer is correct.

Ninth question is displayed.

If answer is correct.

Last question is displayed.

If question is correct.

User has won.

Reward is displayed.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

Else User loses, game ends.

After game has ended reward is displayed and outputted to a file.

Major Variables

Type	Variable Name	Description
string	Name	Name of player
	Input	Input from file
	Question 1-10	All the questions in game()
	Quests 1-6	Questions in qualifier()
Integer	mChoice	Menu choice
	Crrct	Correct answers
	Wrong	Wrong answers
	Reward	Reward Money for Game
Const integer	Size	Size of array
Unsigned integer	totTim	Total time taken
	begTim	Beginning time
	endTim	End time
Const character	Test	Answers to questions in qualifier
Character	choiceY	Choice to start after rules
	Choice A,b,c,d	Answer choices in game
	Answr	Answer to qualifier game
Arrays	Test[SIZE]	All answers for qualifier questions stored here

Concepts Locations

If/else	lines 158-340
While	line 414
Switch	line 65
For	line 409
Break	line 77
Function declaration	line 16-18
Function call	line 28
Function definition	line 35
Time	line 143
Increment/decrement	line 409
Output to a file	line 432
Input from a file	line 83
Array	line 373

