PROJECT 2



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Introduction

This is my version of Who Wants To Be A Millionaire. The idea and inspiration came from the game show “Who Wants To Be A Millionaire the airs on the television broadcasting channel ABC. The show was created by David Briggs, Mike Whitehill, and Steven Knight, presented originally by Regis Philbin during its early years of production. My version of the game will have the user answer 15 questions which for the most part are trivial type questions with subjects that range from American history, c++ class history, chemistry, geo/demographical questions.

Similar to the original game, this program will have 15 questions in which the user/player will have to choose from 1-4 answers, represented by A,B,C,D. Each time a question is answered we will give the user/player a chane to keep or change their answer. Each correct answer will be followed by a money prize that increments each turn and as well as the next following question. The purpose of this game is to improve one’s knowledge about trivial facts on a multitude of subjects, thus creating a well rounded person of decent knowledge.

Summary

Project size: roughly 800 lines

# of variables and functions: +18

# of methods: chapters 2-8

Variables

* const int arraysize = 2
* int tests[arraySize] = {2123629, 2152573};
* int choice;
* char userInput;
* char rysChar
* int money = value;
* int n (cls)

Constructs

Chapter 2

* #include <iostream
* cout object
* char data type
* string class
* bool data type
* determining size of data
* scope
* comments
* constants with names

Chapter 3

* cin
* string objects
* characters

Chapter 4

* if statement
* expanded if staments
* if/else
* nested if
* flags
* logical operators
* Menu
* validate user input
* conditional operators
* switch statement

Chapter 5

* increment operator
* while loop
* counters
* for loop
* nested loops
* using files from data

Chapter 6

* defining/calling functions
* function prototypes
* passing by values
* return statement
* returning bool statement
* defaulted arguments
* local variables

Chapter 7

* accessing array elements
* array as functions
* 2D array

Chapter 8

* linear search

PSEUDOCODE

//void con(); //continue menu

void mainMenu(); //void function for main menu

void questionOne(); //void function for question 1

void questionTwo(); //void function for question 2

void questionThree(); //void function for question 3

void questionFour(); //void function for question 4

void questionFive(); //void function for question 5

void questionSix(); //void function for question 6

void questionSeven(); //void function for question 7

void questionEight(); //void function for question 8

void questionNine(); //void function for question 9

void questionTen(); //void function for question 10

void questionEleven(); //void function for question 11

void questionTwelve(); //void function for question 12

void questionThirteen(); //void function for question 13

void questionFourteen(); //void function for question 14

void questionFifteen(); //void function for question 15

bool areYouSure(); //is this your final answer function

void moneyPoint(int); //void function for moneypoint/money prize

int searchList(int [], int, int); //linear search for user ID #

void cls (int); //pseudo clear screen, int for spaces

void bonusAb(); //bonus question function

int main

{

const int arraySize = 2; //size of the array that holds how many ID #s there are

int tests[arraySize] = {2123629, 2152573}; //array to hold ID #s

int accountN = 0; //holds the account numbers

int results = 0; //holds what # the account is in the element(inside array))

"Please enter a valid ID # //Asks user to input their ID number

accountN; //variable forID #

results = searchList(tests, arraySize, accountN); //linear search result

if (results == -1)//if result(ID number) is -1 (false) cout msg will show

"SORRY, INVALID ENTRY, PLEASE TRY AGAIN.\n"; //if user ID is not valid this message will show, user has to try again.

else // else the user will be brought to the main menu to begin game, see rules, or quit.

mainMenu();//main menu function

return 0;

void mainMenu() //void main menu function

int choice; //holds the choices for menu

ifstream nameFile; //ifstream namefile to read the RULES.txt

string input; //string input, inputs the rules from txt onto console

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* //Opening title if void function main menu is opened

WHO WANTS

TO BE A

MILLIONAIRE

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. START GAME\n"; //choice 1 allows player to start the game 2. RULES\n"; //choice 2 opens the RULES.txt file onto console, rules can be read through here

3. QUIT GAME\n";//choice 3 quits the game

"PLEASE ENTER CHOICE: \t"; //cout msg for a menu choice

choice; //inputs choice

switch (choice) //switch statement which holds the choice inputs

{

case 1: //case 1 or START GAME will automatically call question 1

questionOne();

break;

case 2:

cout << "RULES PLACE HOLDER\n"; //case 2 for rules

nameFile.open("RULES.txt"); //opens file "RULES.txt"(will be placed in same destination as the cpp file

if (nameFile) //fstream to read from RULES.txt file

{

getline(nameFile, input); //namefile, input reads file

while (nameFile)

input

getline(nameFile,input); //getline gets the from the namefils it's input which holds the rules to the game

nameFile.close(); //file close after opening txt

else //else statement if txt cannot be read

"ERROR:cannot open file.\n"; //incase the file cannot be read this message will be shown

break;

case 3: //case 3 will cout a message that you have quit the game

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n";

"YOU CHOOSE TO QUIT, HAVE A NICE DAY.\n";

break;

default:

"INVALID OPTION, TRY AGAIN\n"; //in the event the user enters in an invalid key for choice

// an option to try again will be given

//end of switch

// template function for questions/comments

void questionOne() //function for question 1

cls (30); //pseudo clear screen after every user input/ answer. 30 line gap

char userInput; //char user input is for the answer the user chooses for question 1

##QUESTION 1 #############################################\n"; //question 1 title

"In what year was RCC established ?\ //question 1 display

"A. 1916 C. 1920"; //choose answer A,B,C,D

"B. 1945 D. 1975";

"##########################################################\n";

"YOUR ANSWER IS: ;//user answer is:

userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'A')//toupper allows user to use the lowercase or uppercase A/a

{ //if user inputs A/a they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\n"; // if right answer give moneyPoints(value)

moneyPoint(100); //answer question 1 correctly user gets $100

questionTwo(); // call next questionFunction() question 2

else //else statement for wrong answer

//cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(0); // $0 will be given if answer is wrong

else

questionOne();//if areYouSure() == false question one will be called

void questionTwo() //function for question 2

char userInput; //char user input is for the answer the user chooses for question 2

##QUESTION 2 #############################################\n"; //question 2 title

"What is the capital of Germany ?\n"; //question 2 display

"A. Beirut\t\t\t C. Buenos Aires\n"; //choose answer A,B,C,D

"B. Berlin\t\t\t D. Budapest\n";

"##########################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'B')//toupper allows user to use the lowercase or uppercase B/b

//if user inputs B/b they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!"; // if right answer give moneyPoints(value)

moneyPoint(200); //answer question 2 correctly user gets $200

questionThree(); // call next questionFunction() question 3

else //else statement for wrong answer

//cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(0); // $0 will be given if answer is wrong

else

questionTwo(); //if areYouSure() == false question two will be called

void questionThree() //function for question 3

{

char userInput; //char user input is for the answer the user chooses for question 3

cout << "\n##QUESTION 3 ####################################################\n"; //question 3 title

"Who was the 26th U.S. President ?\n"; //question 3 display

"A. Grover Cleveland\t\t\t C. Theodore Roosevelt\n"; //choose answer A,B,C,D

"B. William McKinley\t\t\t D. Harry Truman\n";

"#################################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput;//cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'C') //toupper allows user to use the lowercase or uppercase C/c

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!\n"; // if right answer give moneyPoints(value)

moneyPoint(300); //answer question 3 correctly user gets $300

questionFour(); //call next questionFunction() question 4

else //else statement for wrong answer

{ //cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(0); // $0 will be given if answer is wrong

else

questionThree(); //if areYouSure() == false question three will be called

void questionFour() //function for question 4

char userInput; //char user input is for the answer the user chooses for question 4

"\n##QUESTION 4 #############################################\n"; //question 4 title

"What element in the periodic represents PO ?\n"; //question 4 display

"A. Polonium\t\t\t C. Cobalt\n"; //choose answer A,B,C,D

"B. Oxygen\t\t\t D. Radon\n";

"##########################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

//if user inputs A/a they are correct

if(toupper(userInput) == 'A') //toupper allows user to use the lowercase or uppercase A/a

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\n";

moneyPoint(500); //answer question4 correctly user gets $500

questionFive(); // call next questionFunction() question 5

else //else statement for wrong answer

//cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(0); // $0 will be given if answer is wrong

else

questionFour(); //if areYouSure() == false question four will be called

void questionFive() //function for question 5

char userInput; //char user input is for the answer the user chooses for question 5

"##QUESTION 5 ##################################################\"; //question 5 title

"What is the class code for the c++ progamming morning session ?\n"; //question 5 display

"A. 47023\t\t\t C. 46023\n"; //choose answer A,B,C,D

"B. 92577\t\t\t D. 741808\n";

"###############################################################\n";

"YOUR ANSWER IS: \n"; //user answer is: userInput; user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'C') //toupper allows user to use the lowercase or uppercase C/c

//if user inputs C/c they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\"; // if right answer give moneyPoints(value)

moneyPoint(1000); //answer question 5 correctly user gets $100

questionSix(); // call next questionFunction() question 5

else //else statement for wrong answer

//cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(1000); // $1000 will be given if answer is wrong

else

questionFive(); //if areYouSure() == false question five will be called

void questionSix() //function for question 6

char userInput; //char user input is for the answer the user chooses for question 6

cout << "\n##QUESTION 6 ##################################################\n"; //question 6 title

"In what year was the first manned mission to land on the moon ?\n"; //question 6 display

"A. 1920\t\t\t C. 2011\n"; //choose answer A,B,C,D

"B. 1969\t\t\t D. 1972\n";

"###############################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'B') //toupper allows user to use the lowercase or uppercase B/b

//if user inputs B/b they are correct

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!"; // if right answer give moneyPoints(value)

moneyPoint(2000); //answer question 6 correctly user gets $2000

questionSeven(); // call next questionFunction() question 6

else //else statement for wrong answer

//cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

"WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(1000); // $1000 will be given if answer is wrong

else

questionSix(); //if areYouSure() == false question six will be called

void questionSeven() //function for question 7

char userInput;//char user input is for the answer the user chooses for question 7

##QUESTION 7 ##########################################################\"; //question 7 title

"Other than 'Global Variables', what is the sure way to fail the class ?\n"; //question 7 display

"A. Using 'doubles'\t\t\t C. Using 'global constants' \n";//choose answer A,B,C,D

"B. Using 'shorts'\t\t\t D. Using 'do-while'\n";

"#######################################################################\";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; //user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'A') //toupper allows user to use the lowercase or uppercase A/a

//if user inputs A/a they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\n"; // if right answer give moneyPoints(value)

moneyPoint(4000); //answer question 7 correctly user gets $4000

questionEight(); // call next questionFunction() question 8

else //else statement for wrong answer

{ //cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(1000); // $1000 will be given if answer is wrong

else

questionSeven(); //if areYouSure() == false question seven will be called

void questionEight() //function for question 8

char userInput; //char user input is for the answer the user chooses for question 8

"##QUESTION 8 ############################################################\n"; //question 8 title

"How many pieces are in the game of chess per side ?\n"; //question 8 display

"A. 15 C. 16\n"; //choose answer A,B,C,D

"B. 17t D. 18\n";

"##########################################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'C') //toupper allows user to use the lowercase or uppercase C/c

//if user inputs C/c they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\n";

moneyPoint(8000); //answer question 8 correctly user gets $8000

questionNine(); // call next questionFunction() question 8

else //else statement for wrong answer

{ //cout WRONG ANSWER, GAME OVER, THANKS FOR PLAYING

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(1000); // $1000 will be given if answer is wrong

else

questionEight(); //if areYouSure() == false question eight will be called

void questionNine() //function for question 9

char userInput; //char user input is for the answer the user chooses for question 9

"##QUESTION 9 ############################################################"; //question 9 title

"As of 2012 what is the estimated world population ?"; //question 9 display

"A. 7 Billion\ C. 3 Billion\"; //choose answer A,B,C,D

"B. 5 Billion\ D. 9 Billion"; "#########################################################################";

"YOUR ANSWER IS: \n"; //user answer is:

cin >> userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'A') //toupper allows user to use the lowercase or uppercase A/a

//if user inputs A/a they are correct

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!\n";

moneyPoint(16000); //answer question 9 correctly user gets $160000

questionTen(); // call next questionFunction() question 10

else

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(1000); // $1000 will be given if answer is wrong

else

questionNine(); //if areYouSure() == false question nine will be called

void questionTen() //function for question 10

char userInput; //char user input is for the answer the user chooses for question 9

##QUESTION 10 ############################################################"; //question 10 title

"What is the 5th planet in our solar system ?\n"; //question 10 display

"A. Jupiter C. Neptune\n"; //choose answer A,B,C,D

"B. Mars D. Uranus\n";

"##########################################################################";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'A') //toupper allows user to use the lowercase or uppercase A/a

//if user inputs A/a they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\n";

moneyPoint(32000); //answer question 10 correctly user gets $320000

questionEleven(); // call next questionFunction() question 11

else

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(1000); // $1000 will be given if answer is wrong

else

questionTen(); //if areYouSure() == false question ten will be called

void questionEleven() //function for question 11

char userInput; //char user input is for the answer the user chooses for question 11

cout << "\n##QUESTION 11 ############################################################\n"; //question 11 title

cout << "What is the largest animal on earth ?\n"; //question 11 display

cout << "A. Blue Whale\t\t\t C. Anaconda\n"; //choose answer A,B,C,D

cout << "B. African Elephant\t\t D. Giraffe\n";

cout << "##########################################################################\n";

cout << "YOUR ANSWER IS: \n"; //user answer is:

cin >> userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'A') //toupper allows user to use the lowercase or uppercase A/a

//if user inputs A/a they are correct

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!\n";

moneyPoint(64000); //answer question 11 correctly user gets $640000

questionTwelve(); // call next questionFunction() question 12

else

"WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(32000); // $32000 will be given if answer is wrong

else

questionEleven(); //if areYouSure() == false question eleven will be called

void questionTwelve() //function for question 12

char userInput; //char user input is for the answer the user chooses for question 12

##QUESTION 12 ############################################################\"; //question 12 title

"In what year did the United States adopt its independence ?\n"; //question 12 display

"A. 1976 C. 1476"; //choose answer A,B,C,D

"B. 1776 D. 1876";

"##########################################################################\n";

cout << "YOUR ANSWER IS: \n"; //user answer is:

cin >> userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

//if user inputs B/b they are correct

if(toupper(userInput) == 'B') //toupper allows user to use the lowercase or uppercase B/b

//if user inputs B/b they are correct

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!\n";

moneyPoint(125000); //answer question 12 correctly user gets $125000

questionThirteen(); // call next questionFunction() question 13

else

"WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!";

moneyPoint(32000); // $32000 will be given if answer is wrong

else

questionTwelve(); //if areYouSure() == false question twelve will be called

void questionThirteen() //function for question 13

char userInput; //char user input is for the answer the user chooses for question 13

##QUESTION 13 ############################################################\n"; //question 13 title

cout << "What country today was ancient Babylonia ?\n"; //question 13 display

"A. Iran C. Iraq"; //choose answer A,B,C,D

"B. Istanbul D. Poland";

"##########################################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'C') //toupper allows user to use the lowercase or uppercase C/c

//if user inputs C/c they are correct

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!\n";

moneyPoint(250000); //answer question 12 correctly user gets $250000

questionFourteen(); // call next questionFunction() question 14

else

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(32000); // $32000 will be given if answer is wrong

else

questionThirteen(); //if areYouSure() == false question thirteen will be called

void questionFourteen() //function for question 14

char userInput; //char user input is for the answer the user chooses for question 14

"##QUESTION 14 ############################################################"; //question 14 title

"How many seconds are in 2 minutes? ?"; //question 14 display

"A. 180 C. 120"; //choose answer A,B,C,D

"B. 450 D. 240"; "##########################################################################\n";

"YOUR ANSWER IS: \n"; //user answer is:

userInput; //cin >> user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'C') //toupper allows user to use the lowercase or uppercase C/c

//if user inputs C/c they are correct

cls (30); // pseudo clear screen after the correct answer is given

cout << "YOU ARE CORRECT!\n";

moneyPoint(500000); //answer question 12 correctly user gets $500000

questionFifteen(); // call next questionFunction() question 15

else

{

"WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(32000); // $32000 will be given if answer is wrong

else

questionFourteen(); //if areYouSure() == false question fourteen will be called

}

void questionFifteen() //function for question 15

char userInput; //char user input is for the answer the user chooses for question 15

##QUESTION 15 ############################################################"; //question 15 title

"What is the boiling point of water ?"; //question 15 display

"A. 101 F\t\t\t C. 198 F"; //choose answer A,B,C,D

"B. 212 F\t\t\t D. 72 C";

"##########################################################################\n";

"YOUR ANSWER IS: "; //user answer is:

userInput; //user's selected answer

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

if(toupper(userInput) == 'B') //toupper allows user to use the lowercase or uppercase B/b

cls (30); // pseudo clear screen after the correct answer is given

"YOU ARE CORRECT!\n";

moneyPoint(1000000); //answer question 12 correctly user gets $1000000

//char bonusInput;

cout << "WOULD YOU LIKE TO ENTER BONUS ROUND\n";

//cin >> bonusInput;

// if user is sure?

if(areYouSure() == true) //if statement, IS THAT YOUR FINAL ANSWER? (yes/ no) function inside if

bonusAb(); //if true, bonusAb function is called and bonus round begins

else

cls (30); // pseudo clear screen after the correct answer is given

"NICE TRY, WE'LL DO IT ANYWAY! =)"; //trick question, either answer will still call bonusAb function

bonusAb(); //bonusAb "bonus round" function

else

cout << "WRONG ANSWER! GAME OVER. THANKS FOR PLAYING!\n";

moneyPoint(32000); // $32000 will be given if answer is wrong

else

questionFifteen(); //if areYouSure() == false question fifteen will be called

void bonusAb() //bonusAb function,

ofstream outputFile;

outputFile.open("callsign.txt"); //outputs file to "callsign.txt"

string mpaUserInput[2][5] = { //using 2D Array, 2 Rows, 5 Columns

{"ROW0 COL0","ROW0 COL1","ROW0 COL2","ROW0 COL3","ROW0 COL4"},

{"ROW1 COL0","ROW1 COL1","ROW1 COL2","ROW1 COL3","ROW1 COL4"}

;

//mpa1+2 compensate for string 2D array on ^

string mpa1[5] = {"ALPHA", "BRAVO", "CHARLIE", "DELTA", "ECHO"};

string mpa2[5] = {"FOXTROT", "GOLF", "HOTEL", "INDIA", "JULIET"};

"\n##BONUS QUESTION ##########################################################"; // bonus question title

"WHAT IS THE FIRST TEN MILITARY PHONETIC ALPHABETS ?"; //bonus question

"##########################################################################\n";

cout << "ENTER PHONETIC ABCDEFGHIJ: " << endl;//bonus question prompt

// CIN

for(int row = 0; row < 2; row++)

for(int col = 0; col < 5; col++)

"LETTER #" << (col+1) <<": ";

mpaUserInput[row][col];

cout << endl;

//VALIDATING ROW 1

"VALIDATING ROW 1: "<< endl;

for(int col = 0; col < 5; col++)

// for loop to caps all columns //validates length of any column in first row

//i.e. userinput has 4 char (alfa)

// if 0 < userinput ++ until reaches length of userinput (4 chars)

for(int i = 0; i < mpaUserInput[0][col].length(); i++)

//the char of userinput will (=) become uppercase (ALFA)

(mpaUserInput[0][col])[i] = toupper((mpaUserInput[0][col])[i]);

// VALIDATION FOR ROW 1 (see mpa1 arrays)

//if userinput in row 0 any column is the same as mpa1 any column

//i.e. is ALFA the same as ALPHA? if yes, CORRECT else, WRONG

if(mpaUserInput[0][col] == mpa1[col])

cout << "CORRECT!" << endl; //validates in column the correct MPA

else

cout << "WRONG!!!" << endl; //validates in column the wrong MPA

cout << endl; //cout<<endl;

//VALIDATING ROW 2

cout << "VALIDATING ROW 2: "<< endl;

for(int col = 0; col < 5; col++)

for(int i = 0; i < mpaUserInput[1][col].length(); i++)

(mpaUserInput[1][col])[i] = toupper((mpaUserInput[1][col])[i]);

// VALIDATION FOR ROW2 (see mpa2 arrays)

if(mpaUserInput[1][col] == mpa2[col])

"CORRECT!" << endl;

else

"WRONG!!!" << endl;

endl;

// show initial value AFTER cin

for(int row = 0; row < 2; row++)

for(int col = 0; col < 5; col++)

cout << mpaUserInput[row][col] << endl;

outputFile << mpaUserInput[row][col] << "\r\n";

outputFile << "\r\n";

cout<<"THANKS FOR PLAYING, HAVE A GREAT SUMMER EVERYONE!!!"<<endl;

// Revalidate Question

bool areYouSure() //areYouSure function= called for every question

char rysChar; //char holds the (Y/n) reply

cout << "IS THAT YOUR FINAL ANSWER?(Y/n): ";// function msg

cin >> rysChar; //user's input (Y/n)

if(toupper(rysChar) == 'Y') //toupper rysChar can either be Y/y

//test for return: comment out cout

//cout << "return true\n";

return true;

else

return false; //returns false

void moneyPoint(int value) //moneyPoint function used for every question

int money = value; //int money holds the given value for the 15 questions

cout << "\nYOU HAVE EARNED: $" << money << endl; //output for money earned

void cls (int n) //psuedo clear screen function

for (int i = 1;i<n;i++) //n holds the variable to determine how many spaces are used

cout<<endl; //cout<<endl;

//constant integer variable setting array size 2, corresponds to the ID #s for linear search

int searchList(int list[], int numElems, int value)

int index = 0; //subscript to search array

int position = -1; //record position of search value

bool found = false; // boolean to indicate if the value was found, found is set to false

while (index < numElems && !found)

if (list[index] == value) // If the value is found

found = true; // Set the flag

position = index; // Record the value's subscript

index++; // Go to the next element

return position; // Return the position, or -1

end of program