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\* File: testmain.cpp

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\* Purpose: project 2 17A 48130

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include iostream

include fstream //read and writing to a file.

include string

include cstring

include iomanip

include "MyFunctions.h" //header that holds functions Main Game

include "Mother1.h" //base class challenger mode

include "Daughter1.h" //derived class challenger mode, inherits Mother1::inputException1 question 1 challenger

using namespace std

//User Libraries

//Global Constant

//Function Prototype

//Execution starts here!

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\*/

mainMenu // main menu function

//displays money po system in "case 5"

//has 14 money awards, the 15th is written on DisplayNumbers\*\*

moneyP[2][7] = 100, 200, 300, 500, 1000, 2000, 4000 ,

8000, 16000, 32000, 64000, 125000, 250000, 500000,

\*pMoney[2]

\*pMoney = moneyP[0]

( i = 0 i 7 i++)

(\*pMoney)[i] = moneyP[0][i]

\*(pMoney+1) = moneyP[1]

( i = 0 i 7 i++)

(\*(pMoney+1))[i] = pMoney[1][i]

choice //holds the choices menu

number1 //holds choice 4 Phone number of friend l e line

ofstream outputFile //writes phone a friend l e line phone number CASE 4

stream nameFile // stream namefile to read the RULES.txt

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

"\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\n" //Opening title function main menu is opened

"\*WHO WANTS\*\n"

" \*TO BE A\*\n"

"\*MILLIONAIRE\*\n"

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

"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

"4. PHONE-A-FRIEND L E LINE \n"

"5. PRIZE MONEY LIST \n"

"6. CHALLENGE MODE \n"

"PLEASE ENTER CHOICE: " // msg a menu choice

choice //inputs choice

(choice) // statement which holds the choice inputs

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

questionOne

break

case 2:

"RULES PLACE HOLDER\n" //case 2 rules

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

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

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

(nameFile)

input endl

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

// statement 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 a message that you have quit the game

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

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

break

case 4:

outputFile.open("PHONENUM.txt")

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

"Please enter a phone number:\n"

number1 // number1 holds the phone number entered by player, it is written o a file "PHONENUM.txt"

outputFile number1 endl

break

case 5: //case 5 will pr out the money po s "pay out structure"

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

"\*\*Payout Structure\*\*" endl

displayNumbers(pMoney, 2, 7) //calls displayNumber function which has the money prize

break

case 6:

mainCHMenu //challenge mode

break

default:

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

// an option to try again will be given

mainMenu

// template function questions/comments

questionOne //function question 1

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

userInput // user input is the answer the user chooses question 1

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

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

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

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

"B. 1945 D. 1975\n"

" \n"

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

userInput // user's selected answer

//l e line audience poll

(toupper(userInput) == 'F')

question1Audpol //entering F will call the question 1 audience poll l e line

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //writting to file

getline(outputFile, input) //namefile, input phone number

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs A/a they are correct

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

"YOU ARE CORRECT!\n" // right answer give moneyPo s(value)

moneyPo (100) //answer question 1 correctly user gets $100

questionTwo // call next questionFunction question 2

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (0)

winlosefunction

winpr // $0 will be given answer is wrong

questionOne // areYouSure == false question one will be called

questionTwo //function question 2

userInput // user input is the answer the user chooses question 2

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

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

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

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

"B. Berlin D. Budapest\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo2

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs B/b they are correct

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

"YOU ARE CORRECT!\n" // right answer give moneyPo s(value)

moneyPo (200) //answer question 2 correctly user gets $200

questionThree // call next questionFunction question 3

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (0) // $0 will be given answer is wrong

winlosefunction

winpr

questionTwo // areYouSure == false question two will be called

questionThree //function question 3

userInput // user input is the answer the user chooses question 3

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

"\n QUESTION 3 \n" //question 3 title

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

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

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

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo3

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

(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" // right answer give moneyPo s(value)

moneyPo (300) //answer question 3 correctly user gets $300

questionFour //call next questionFunction question 4

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (0) // $0 will be given answer is wrong

winlosefunction

winpr

questionThree // areYouSure == false question three will be called

questionFour //function question 4

userInput // user input is the answer the user chooses question 4

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

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

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

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

"B. Oxygen D. Radon\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo4

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

// user inputs A/a they are correct

(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

"YOU ARE CORRECT!\n"

moneyPo (500) //answer question4 correctly user gets $500

questionFive // call next questionFunction question 5

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (0) // $0 will be given answer is wrong

winlosefunction

winpr

questionFour // areYouSure == false question four will be called

questionFive //function question 5

userInput // user input is the answer the user chooses question 5

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

"\n QUESTION 5 \n" //question 5 title

"What is the class code the c++ 17A 11:10AM ?\n" //question 5 display

"A. 47023 C. 48130\n" //choose answer A,B,C,D

"B. 92577 D. 741808\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo5

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs C/c they are correct

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

"YOU ARE CORRECT!\n" // right answer give moneyPo s(value)

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

questionSix // call next questionFunction question 5

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (1000) // $1000 will be given answer is wrong

winlosefunction

winpr

questionFive // areYouSure == false question five will be called

questionSix //function question 6

userInput // user input is the answer the user chooses question 6

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

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

"B. 1969 D. 1972\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo6

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs B/b they are correct

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

"YOU ARE CORRECT!\n" // right answer give moneyPo s(value)

moneyPo (2000) //answer question 6 correctly user gets $2000

questionSeven // call next questionFunction question 6

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (1000) // $1000 will be given answer is wrong

winlosefunction

winpr

questionSix // areYouSure == false question six will be called

questionSeven //function question 7

userInput // user input is the answer the user chooses question 7

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

"\n QUESTION 7 \n" //question 7 title

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

"A. Using 'doubles' C. Using 'global constants' \n" //choose answer A,B,C,D

"B. Using 'shorts' D. Using 'do-'\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo7

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs A/a they are correct

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

"YOU ARE CORRECT!\n" // right answer give moneyPo s(value)

moneyPo (4000) //answer question 7 correctly user gets $4000

questionEight // call next questionFunction question 8

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (1000) // $1000 will be given answer is wrong

winlosefunction

winpr

questionSeven // areYouSure == false question seven will be called

questionEight //function question 8

userInput // user input is the answer the user chooses question 8

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

"\n 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. 17 D. 18\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo8

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs C/c they are correct

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

"YOU ARE CORRECT!\n"

moneyPo (8000) //answer question 8 correctly user gets $8000

questionNine // call next questionFunction question 8

// statement wrong answer

// WRONG ANSWER, GAME OVER, THANKS PLAYING

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

moneyPo (1000) // $1000 will be given answer is wrong

winlosefunction

winpr

questionEight // areYouSure == false question eight will be called

questionNine //function question 9

userInput // user input is the answer the user chooses question 9

stream outputFile

input

"E. Phone A Friend.F. Audience Poll"

"\n QUESTION 9 \n" //question 9 title

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

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

"B. 5 Billion D. 9 Billion\n"

" \n"

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

userInput // user's selected answer

(toupper(userInput) == 'F')

question1Audpo9

"When finished with l e-line, type 'n' and enter to return to question.\n"

//l e line phone-a-friend

(toupper(userInput) == 'E')

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

(outputFile) //fstream to read from RULES.txt file

getline(outputFile, input) //namefile, input reads file

(outputFile)

input endl

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

"When finished with l e-line, type 'n' and enter to return to question.\n"

outputFile.close //file close after opening txt

// statement txt cannot be read

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

// user is sure?

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

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

// user inputs A/a they are correct

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

"YOU ARE CORRECT!\n"

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

questionTen // call next questionFunction question 10

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

moneyPo (1000) // $1000 will be given answer is wrong

winlosefunction

winpr

questionNine // areYouSure == false question nine will be called