#include <iostream>

#include <stdlib.h>

#include <string>

using namespace std;

int main()

{

//Game menu

cout << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;

cout << "\* Welcome! \*" << endl;

cout << "\* \*" << endl;

cout << "\* Please choose a number from the following options: \*" << endl;

cout << "\* \*" << endl;

cout << "\* 1. Play the MATH game! \*" << endl;

cout << "\* 2. Play the MADLIBS game! \*" << endl;

cout << "\* 3. Play the GUESS THE SECRET NUMBER game! \*" << endl;

cout << "\* 4. Play the CHOOSE YOUR OWN ADVENTURE game! \*" << endl;

cout << "\* 5. Exit \*" << endl;

cout << "\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl;

//Declaring variables

double num;

//Getting Input

cout << "Please enter the number of the game that you wish to play." << endl;

cin >> num;

//Game selection

if (num == 1) // MATH game

{

// Variable Declaration

double firstNum, secondNum, thirdNum, fourthNum, fifthNum, sum;

// Game introduction

cout << endl;

cout << " Hello!" << endl;

cout << endl;

cout << " Welcome to Mind Reading!!!" << endl;

cout << endl;

cout << endl;

cout << " We are going to play a mind reading game." << endl;

cout << " We are both going to tell 5 digit numbers" << endl;

cout << " and I will tell you the sum of all five" << endl;

cout << " number after you tell me only the first" << endl;

cout << " number." << endl;

cout << endl;

// User input

cout << endl;

cout << endl;

cout << "Tell me your first 5 digit number: ", cin >> firstNum;

// Reading the mind

sum = firstNum + (2 \* 99999);

// Guessing

cout << endl;

cout << "------------------------------------------" << endl;

cout << "The sum of five 5 digit numbers is: " << sum << endl;

cout << "------------------------------------------" << endl;

cout << endl;

// Mutual input

cout << endl;

cout << "Tell me your second 5 digit number: ";

cin >> secondNum;

thirdNum = 99999 - secondNum;

cout << "I am saying: " << thirdNum << endl;

cout << endl;

cout << "Tell me your third 5 digit number: ";

cin >> fourthNum;

fifthNum = 99999 - fourthNum;

cout << "I am saying: " << fifthNum << endl;

cout << endl;

// Asking for checking

cout << endl;

cout << "Take out your calculator and check if I am correct!" << endl;

// Exiting

cout << endl;

}

else if (num == 3) // GUESS THE SECRET NUMBER game

{

//Declaring variables

int secretNum, guess, guessCount = 0, guessLimit = 5;

//Secret Number

secretNum = rand() % 101;

//Getting input

cout << endl;

cout << " Hello!" << endl;

cout << endl;

cout << " Welcome to Guess the Secret Number!!!" << endl;

cout << endl;

cout << " You have 7 tries" << endl;

cout << " It is between 0 and 100" << endl;

cout << endl;

cout << "Enter your guess: ";

cin >> guess;

while (guess != secretNum && guessCount <= guessLimit)

{

if (guess < secretNum)

{

cout << "Your guess is too low, try again: ";

cin >> guess;

guessCount ++;

}

else

{

cout << "Your guess is too high, try again: ";

cin >> guess;

guessCount ++;

}

}

if (guess == secretNum)

{

cout << endl;

cout << "Congratulations! You win! The secret number is : " << guess;

cout << endl;

}

else

{

cout << endl;

cout << "You lose! You ran out of guesses";

cout << endl;

}

}

else if (num = 4) // CHOOSE YOUR OWN ADVENTURE

{

// Declaring variables

char train;

int num;

string activity;

double money;

//Storyline

cout << "Hello! You are at Atlantic Ave in Brooklyn! Please let me know if you are taking the F, Q or B train!" << endl;

cin >> train;

if (train == 'B')

{

cout << "Great! Enter 1 to go to Manhattan or 2 to go to Coney Island" << endl;

cin >> num;

if(num == 2)

{

cout << "Wow! You are looking toward a terrific adventure!" << endl;

cout << "You are off the train now! Do you want to go jogging on the beach or to the amusement park (enter 'jogging' or 'amusement')?" << endl;

cin >> activity;

if (activity == "amusement")

{

cout << "Have fun! How much money do you want to spend? Once I know that, I will give you a choice of rides! Then you will be on your own!"<< endl;

cin >> money;

if (money > 15 && money < 30)

{

cout << "OK! Choose the Bumper Cars or the Rolling Thunder Roller Coaster!" << endl;

}

else if (money = 0 && money < 15)

{

cout << "OK! Choose the Rolling Thunder Roller Coaster, and you can get an ice-cream" << endl;

}

else if (money > 30)

{

cout << "OK! Great! You can go to any two ride that you want" << endl;

}

}

else if (activity == "jogging")

{

cout << "Broad Walk is great at Conny Island, you can walk on th sand too. The view is great." << endl;

}

}

else if (num = 1)

{

cout << "WOW! Great choice. Do you want to go jogging on the beach or to the sky (enter 'jogging' or 'sky'?" << endl;

cin >> activity;

if (activity == "jogging")

{

cout << "Central Park is the perfect place. You can get some fresh air and relax" << endl;

}

else if (activity == "sky")

{

cout << "Let's go to the Empire State building. You can see the entire Manhattan from there" << endl;

}

}

}

else if (train == 'F')

{

cout << "Time to go to the campus" << endl;

}

else if (train == 'Q')

{

cout << "Let's take a trip to home. It would be great to see the family" << endl;

}

}

else if (num = 2) // MAD LIBS game

{

// Declaring variables

string adjective, consumerProduct, individual, nameOfCompany, readingMaterial, verb1, verb2, verb3;

// Getting input

cout << " Welcome to the Mad Libs Game" << endl;

cout << endl;

cout << "Give me the following information" << endl;

cout << "";

getline(cin, adjective);

cout << "Adjective: ";

getline(cin, adjective);

cout << "Consumer Product: ";

getline(cin, consumerProduct);

cout << "Individual: ";

getline(cin, individual);

cout << "Name Of Company: ";

getline(cin, nameOfCompany);

cout << "Reading Material: ";

getline(cin, readingMaterial);

cout << "Verb ending with -ing: ";

getline(cin, verb1);

cout << "Verb ending with -ing: ";

getline(cin, verb2);

cout << "Verb ending with -ing: ";

getline(cin, verb3);

//Output

cout << endl;

cout << endl;

cout << "This Harried User License Agreement (HULA) is for " << adjective << " purposes only." << endl;

cout << "There is no " << consumerProduct << " accompanying the HULA." << endl;

cout << "IMPORTANT-READ CAREFULLY: This Harried User License Agreement HULA is" << endl;

cout << "a legal agreement between " << individual << endl;

cout << "and " << nameOfCompany << " for the software that accompanies this HULA, which" << endl;

cout << "includes " << consumerProduct << " and may include associated media, printed materials," << endl;

cout << "online or electronic " << readingMaterial << ", and Internet-based services." << endl;

cout << "You agree to be bound by the terms of this HULA by" << endl;

cout << verb1 << ", " << verb2 << ", or otherwise" << endl;

cout << verb3 << " the software." << endl;

}

else if (num = 5) //Exit

{

return 0;

}

else

{

cout << "Incorrect selection, try again: ";

cin >> num;

}

return 0;

}