#include <cstdlib>

#include <ctime>

#include <iostream>

using namespace std;

int main()

{

cout << "\n\t\t\tWelcome to GuessTheNumber game!"

<< endl;

cout << "You have to guess a number between 1 and 100. "

"You'll have limited choices based on the "

"level you choose. Good Luck!"

<< endl;

while (true) {

cout << "\nEnter the difficulty level: \n";

cout << "1 for easy!\t";

cout << "2 for medium!\t";

cout << "3 for difficult!\t";

cout << "0 for ending the game!\n" << endl;

// select the level of difficulty

int difficultyChoice;

cout << "Enter the difficulty level: ";

cin >> difficultyChoice;

// generating the secret number

srand(time(0));

int secretNumber = 1 + (rand() % 100);

int playerChoice;

// Difficulty Level:Easy

if (difficultyChoice == 1) {

cout << "\nYou have 10 choices for finding the "

"secret number between 1 and 100.";

int choicesLeft = 10;

for (int i = 1; i <= 10; i++) {

cout << "\n\nEnter the number: ";

cin >> playerChoice;

if (playerChoice == secretNumber) {

cout << "Well played! You won, "

<< playerChoice

<< " is the secret number" << endl;

cout << "\t\t\t Thanks for playing...."

<< endl;

cout << "Play the game again with "

"us!!\n\n"

<< endl;

break;

}

else {

cout << "Nope, " << playerChoice

<< " is not the right number\n";

if (playerChoice > secretNumber) {

cout << "The secret number is "

"smaller than the number "

"you have chosen"

<< endl;

}

else {

cout << "The secret number is "

"greater than the number "

"you have chosen"

<< endl;

}

choicesLeft--;

cout << choicesLeft << " choices left. "

<< endl;

if (choicesLeft == 0) {

cout << "You couldn't find the "

"secret number, it was "

<< secretNumber

<< ", You lose!!\n\n";

cout << "Play the game again to "

"win!!!\n\n";

}

}

}

}

// Difficulty level : Medium

else if (difficultyChoice == 2) {

cout << "\nYou have 7 choices for finding the "

"secret number between 1 and 100.";

int choicesLeft = 7;

for (int i = 1; i <= 7; i++) {

cout << "\n\nEnter the number: ";

cin >> playerChoice;

if (playerChoice == secretNumber) {

cout << "Well played! You won, "

<< playerChoice

<< " is the secret number" << endl;

cout << "\t\t\t Thanks for playing...."

<< endl;

cout << "Play the game again with "

"us!!\n\n"

<< endl;

break;

}

else {

cout << "Nope, " << playerChoice

<< " is not the right number\n";

if (playerChoice > secretNumber) {

cout << "The secret number is "

"smaller than the number "

"you have chosen"

<< endl;

}

else {

cout << "The secret number is "

"greater than the number "

"you have chosen"

<< endl;

}

choicesLeft--;

cout << choicesLeft << " choices left. "

<< endl;

if (choicesLeft == 0) {

cout << "You couldn't find the "

"secret number, it was "

<< secretNumber

<< ", You lose!!\n\n";

cout << "Play the game again to "

"win!!!\n\n";

}

}

}

}

else if (difficultyChoice == 3) {

cout << "\nYou have 5 choices for finding the "

"secret number between 1 and 100.";

int choicesLeft = 5;

for (int i = 1; i <= 5; i++) {

cout << "\n\nEnter the number: ";

cin >> playerChoice;

if (playerChoice == secretNumber) {

cout << "Well played! You won, "

<< playerChoice

<< " is the secret number" << endl;

cout << "\t\t\t Thanks for playing...."

<< endl;

cout << "Play the game again with "

"us!!\n\n"

<< endl;

break;

}

else {

cout << "Nope, " << playerChoice

<< " is not the right number\n";

if (playerChoice > secretNumber) {

cout << "The secret number is "

"smaller than the number "

"you have chosen"

<< endl;

}

else {

cout << "The secret number is "

"greater than the number "

"you have chosen"

<< endl;

}

choicesLeft--;

cout << choicesLeft << " choices left. "

<< endl;

if (choicesLeft == 0) {

cout << "You couldn't find the "

"secret number, it was "

<< secretNumber

<< ", You lose!!\n\n";

cout << "Play the game again to "

"win!!!\n\n";

}

}

}

}

// To end the game

else if (difficultyChoice == 0) {

exit(0);

}

else {

cout << "Wrong choice, Enter valid choice to "

"play the game! (0,1,2,3)"

<< endl;

}

}

return 0;

}