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|  | | |

#include<iostream>

#include<cstdlib>

#include<time.h>

bool playerTurn(int compSecret, bool isWinner)

{

  int guess;

  std::cout<<"Enter your guess🥳 = ";

  std::cin>>guess;

  if(guess > compSecret)

  {

    std::cout<<"Your guess is to high🤕\n";

    isWinner = false;

  }

  else if(guess < compSecret)

  {

    std::cout<<"Your guess is too low🫨\n";

    isWinner = false;

  }

  else

  {

    std::cout<<"Congratulations you won❤️";

    isWinner = true;

  }

  return isWinner;

}

void computerTurn(int playerSecret, int compSecret)

{

  bool isWinner;

  int low = 0;

  int high = 500;

  do

  {

    int guess = (low + high)/2;

    std::cout<<"Computer's guess🤖 = "<<guess<<"\n";

    if(guess == playerSecret)

    {

      std::cout<<"Hahah!! me as a Computer Won the game 🥳🥳 !\n"

               <<"Sorry you lost☹️\n"

               <<"Computer's guess was "<<compSecret<<"\n";

      isWinner = true;

    }

    else

    {

      if(guess > playerSecret)

      {

        std::cout<<"Guess is too high🤔\n";

        high = guess - 1;

      }

      else if(guess < playerSecret)

      {

        std::cout<<"Guess is too low🫣\n";

        low = guess + 1;

      }

      isWinner = playerTurn(compSecret, isWinner);

    }

  } while (isWinner == false);

}

int main()

{

  char ch;

  do

  {

    srand(time(0));

    int playerSecret;

    int compSecret = rand()%100;

    std::cout<<"Enter your secret number🤫 between 0 and 500 = ";

    std::cin>>playerSecret;

    computerTurn(playerSecret, compSecret);

    std::cout<<"Enter a number to play again 🤩🤩🤩:- ";

    std::cin>>ch;

  } while (ch=='y' || ch=='Y');

}