Project 2 FlowChart

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*File: main.cpp Author: Michael Cooper Created 6/6/21 6:00pm Purpose: Project 2 Flowchart

//System Libraries

#include <iostream> //Input/Output Library
#include <iomanip> //I/O manipulation Library
#include <ctime> //For rand
#include <cmath> //find max
#include <cstdlib>
#include <string> //Can use for tutorial and

#include <string> //Can use for tutorial and dialogue options

#include <fstream> //For input output files #include <vector>

//User libraries

//Global Constants

//Function Prototypes

int PlyTurn(string name);
//Play turn (starts the actual turn processes)
void PrntScr(string Names[], int Scores[], int
NumPlrs, bool PrintAvg = false);
void SortScr(string Names[], int Scores[], int
NumPlrs);

void SaveGme(string FileNme, int rndNum, string Names[], int Scores[], int NumPlrs); void CalcAvg(int Scores[], int NumPlrs, int &avg); float CalcAvg(int Scores[], int NumPlrs);

// Float CalcAvg for overloading void PrntPNm(string p[], int NumPlrs); //Print score, Sort Scores, Save Game, Calculate

Average, Print Player Name. bool LoadGme(string FileNme, int &rndNum, string Names[], int Scores[], int &NumPlrs); bool SrchTOK(int rolCts[], int Size, int &index); //Load game and Search for Two Of A Kind

Main

//Set the Random number seed srand(time(0)); //Declare variables int rndNum = 0; //round number //Roll counts: stores dice roll results, how . int score[MX_PLS]; //Score for just the current round //int Scores[6]; //Scores over all 6 rounds char tut,beg,st; //tutorial, begin, start, answer(to roll or stop) string tutor,p[MX_PLS]; //tutorial, player 1, stop bool done; //Done playing? int NumPlrs; //Intro cout << "Welcome to Yahtzee!\nWould you like to read the rules?"<< endl; cout << "Enter Y for yes or N for no" << endl; cin >> tut; if(tut=='y'lltut=='Y') cout<<tutor<<endl; cout<<"Press 'e' to exit, or any other key to start the game!"<<endl; cin>>st: if(toupper(st) == 'E') exit(0); //Check if game file exists. If so, open it. bool gme_ldd = LoadGme("yahtzee.txt", rndNum, p score, NumPlrs); rndNum++; else if(!gme_ldd II rndNum > NM_RDS } while(NumPlrs < 1 II Do while loop NumPlrs > 4); Validation cout << "How many players are there? (1-4)" << endl; cin >> NumPlrs; if(NumPlrs < 1 II NumPlrs > 4) cout << "You must enter a number from 1 to 4" << endl; Page 2

















