CSCI 102 - Fall 2018 Fundamentals of Computation

Assignment Project Exam Help

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HW 12

You will write a program that utilizes most, if not all, of the concepts you have learned so far this semester.

Writing Your Code

This assignment will again be submitted through Vocareum. To develop your code you can use any text editor/compiler you like. We recommend you use the virtual machine and get used to using Linux and developing, compiling and testing code on it. However, you can use the web-based editors/compilers we have referenced in the past.

Candy Catchers

Description & Requirements

Congratulations... you've just been hired at a game design company! Your first project is to design a game called "Candy Catchers". In this game, players will compete to collect as much candy as possible in a "Hunger Games"-style arena. Beware -- a "Big Bully" with a sweet tooth hides somewhere in the arena. As the players collect candy, their scores will be updated on a leaderboard and displayed so that the players' hometown "Districts" can cheer them on. Several rounds of events will take place as the players explore. Some events will cause players to gain candy; others will cause them to lose some of their candy. After all the rounds are finished, the player with the most pieces of candy to be the winner! You will interact with the user with `cout` and `cin` statements. At the start of the program, the user can add players and initial candy counts (**1 or more**). You will then enter a sequence of "actions" that will affect the candy count of the players and drop/delete any player whose count is 0, and print the leaderboard before repeating for the next action. In addition, your leaderboard should be displayed in descending sorted order (i.e. most to least). In other words, it should reorder based on changed candy counts of the players. Consider the following list:
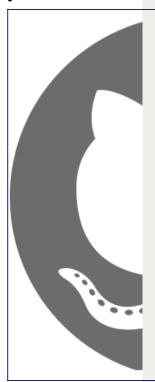
```
Batman 8
Spiderman 7
TreverNoah 6
KatnissEverdeen 4
PeterParker 2
```

If PeterParker collects 3 more candy pieces, then your new list should look like this:
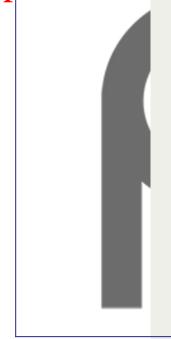
```
Batman 8
Spiderman 7
TreverNoah 6
PeterParker 5
KatnissEverdeen 4
```

In other words, PeterParker should be moved up on the leaderboard.

You may choose to use any sorting algorithm for the leaderboard -- we

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