

CSE2031

Lab 3 FALL 2009

In this lab, you will be asked to write a small C program for data processing. The program will be marked based on the specifications. Please read carefully before you start coding.

Specifications

Write an ANSI C program to do the following

The program reads from the standard input a number of records, each record in a line. The record consists of the following fields

- The team name: a sequence of characters (letters, numerals and _) with a maximum of 30 characters.
- The number of games won 1-99
- The number of games tied 1-99
- The number of games lost 1-99
- Streak, a positive streak indicates a winning streak, a negative streak indicates a losing streak.

Fields in the input are separated by white spaces (spaces or tabs).

The program should read the data and display a list with the team name, points earned, and streak. The points are calculated as 3 point for win, 1 point for tie, and 0 for loss.

For example, one output should look like that

Renegades\t 35\t+5 where \t means a tab. Do not output the two characters \"slash\" and t, output a tab.

The number of points are to be written in 3 digits (right justified) and the streak is a sign follows by a number in 2 digits (right justified)

Each record should end with a newline (including the last one).

The program should be able to deal with the following cases.

If the number of games (won, lost, or tied) is -ve, the program should output the name of the team, followed by a tab, then the string "negative number of games" followed by a new line.

If any of the number of games played is more than 99.

The program should output the name of the team as above, followed by a tab, followed by "games played are more than 99" followed by a newline.

Submit as I2