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/* BY SUBMITTING THIS FILE TO CARMEN, I CERTIFY THAT I HAVE PERFORMED ALL OF
THE WORK TO CREATE THIS FILE AND/OR DETERMINE THE ANSWERS FOUND WITHIN
THIS FILE MYSELF WITH NO ASSISTANCE FROM ANY PERSON (OTHER THAN THE
INSTRUCTOR OR GRADERS OF THIS COURSE) AND I HAVE STRICTLY ADHERED TO THE
TENURES OF THE OHIO STATE UNIVERSITY'S ACADEMIC INTEGRITY POLICY.
*/
#include "lab4.h"
void printStudent(Node* nodePtr) {
    int i, j; /*Loop control variables*/
    float scores[4][3]; /*An array to store each score for the student*/
    /*Stores the scores into the 2-D arrays where rows represent categories and
columns represent positions*/
    scores[0][0] = nodePtr->student.cat1.score1;
    scores[0][1] = nodePtr->student.cat1.score2;
    scores[0][2] = nodePtr->student.cat1.score3;
    scores[1][0] = nodePtr->student.cat2.score1;
    scores[1][1] = nodePtr->student.cat2.score2;
    scores[1][2] = nodePtr->student.cat2.score3;
    scores[2][0] = nodePtr->student.cat3.score1;
    scores[2][1] = nodePtr->student.cat3.score2;
    scores[2][2] = nodePtr->student.cat3.score3;
    scores[3][0] = nodePtr->student.cat4.score1;
    scores[3][1] = nodePtr->student.cat4.score2;
    scores[3][2] = nodePtr->student.cat4.score3;
    /*Prints the student name and ID number*/
    printf("%-23s", nodePtr->student.student_name);
    printf("%-11d", nodePtr->student.student_ID);
    for (i = 0; i < 4; i++) {
        for (j = 0; j < 3; j++) {
            /*Prints the scores. If there's a score listed as -1, prints
n/a*/
            if (scores[i][j] == -1) {
                printf("n/a");
            }
            else {
                printf("%-8.2f", scores[i][j]);
            }
        }
        /*Prints the cumulatives for each category. If there's a score listed
as -1, prints n/a*/
        switch(i) {
            case 0:
                if (nodePtr->student.cat1.cumulative == -1) {
                    printf("n/a");
                }
                else {
                    printf("%-8.2f", nodePtr->student.cat1.cumulative);
                }
                break;
            case 1:
                if (nodePtr->student.cat2.cumulative == -1) {
                    printf("n/a");
                }
                else {
                    printf("%-8.2f", nodePtr->student.cat2.cumulative);
                }
                break;
            case 2:
                if (nodePtr->student.cat3.cumulative == -1) {
                    printf("n/a");
                }
                else {
                    printf("%-8.2f", nodePtr->student.cat3.cumulative);
                }
                break;
            case 3:
                if (nodePtr->student.cat4.cumulative == -1) {
                    printf("n/a");
                }
                else {
                    printf("%-8.2f", nodePtr->student.cat4.cumulative);
                }
                break;
        }
    }
}

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        }
        else {
            printf("%-8.2f", nodePtr->student.cat3.cumulative);
        }
        break;
    case 3:
        if (nodePtr->student.cat4.cumulative == -1) {
            printf("n/a");
        }
        else {
            printf("%-8.2f", nodePtr->student.cat4.cumulative);
        }
        break;
    }
}
/*Prints the current grade*/
printf("%-8.2f", nodePtr->student.current_grade);
/*Prints the final grade of n/a if nonexistent*/
if (nodePtr->student.final_grade == -1) {
    printf("n/a");
}
else {
    printf("%-8.2f", nodePtr->student.final_grade);
}
}
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