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#include <stdio.h>
#include <stdlib.h>
#include <time.h>

int main(){

    int salesPerPerson[10] = {0};
    int salaryPerPerson[10] = {0};
    int salaryIntervals[9] = {0};
    int averageSalaryPerPerson[10] = {0};
    int futureSalariesPerPerson[10][60] = {0};
    int i, x, s, j; //row counter, random sales, salary, column counter

    //ερώτημα 1 - γεμισμα πινάκων ακαθάριστων πωλήσεων
    // πρώτα τους seniors 1,2,8

    srand(time(NULL));

    printf("\nPrinting salespersons' gross sales!\n");
    for (i = 0 ; i < 8; i++){
        if (i == 2||i == 3|| i == 4||i == 5||i == 6)
            continue;
        else{
            x = rand()%90000+10000;
            salesPerPerson[i] = x;
            printf("Salesperson %d made sales %d\n", i, x);
        }//end else
    }//end for

    //μετά τους average

    for (i = 2; i < 10; i++){
        if (i == 4||i == 5|| i == 6||i == 7)
            continue;
        else{
            x = rand()%7000+3000;
            salesPerPerson[i] = x;
            printf("Salesperson %d made sales %d\n", i, x);
        }//end else
    }//end for

    //μετά τους junior

    for (i = 4; i < 7; i++){
        x = rand()%3000;
        salesPerPerson[i] = x;
        printf("Salesperson %d made sales %d\n", i, x);
    }//end for

    //ερώτημα 1 - υπολογισμός μισθών πωλητών

    printf("\nPrinting salespersons' salaries!\n");

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for (i = 0 ; i < 10; i++){
    salaryPerPerson[i] = 0.09 * salesPerPerson[i] + 200;
    printf("Salesperson %d got salary %d\n", i, salaryPerPerson[i]);
} //end for

//ερώτημα 2 διαστήματα μισθών

// αρχικοποίηση πίνακα salaryIntervals σε μηδέν

for (i = 0 ; i < 9; i++)
    salaryIntervals[i] = 0;

//ενημέρωση μετρητών

for (i = 0 ; i < 10; i++){
    if (salaryPerPerson[i] < 2999 && salaryPerPerson[i] > 200)
        salaryIntervals[0]++;
    else
        if (salaryPerPerson[i] < 3999 && salaryPerPerson[i] > 3000)
            salaryIntervals[1]++;
        else
            if (salaryPerPerson[i] < 4999 && salaryPerPerson[i] > 4000)
                salaryIntervals[2]++;
            else
                if (salaryPerPerson[i] < 5999 && salaryPerPerson[i] > 5000)
                    salaryIntervals[3]++;
                else
                    if (salaryPerPerson[i] < 6999 && salaryPerPerson[i] > 6000)
                        salaryIntervals[4]++;
                    else
                        if (salaryPerPerson[i] < 7999 && salaryPerPerson[i] > 7000)
                            salaryIntervals[5]++;
                        else
                            if (salaryPerPerson[i] < 8999 && salaryPerPerson[i] > 8000)
                                salaryIntervals[6]++;
                            else
                                if (salaryPerPerson[i] < 9999 && salaryPerPerson[i] > 9000)
                                    salaryIntervals[7]++;
                                else
                                    if (salaryPerPerson[i] > 10000)
                                        salaryIntervals[8]++;
            } //end for
    printf("\nPrinting the number of salespersons whose salary is within
each interval\n");
    for (i = 0 ; i < 9; i++){
        printf("%d salespersons' salary is within interval
%d\n", salaryIntervals[i], i);
    } //end for

//ερώτημα 3
// γεμίσμα πίνακα μελλοντικών πωλήσεων
// printf("\nPrinting salespersons' future salaries!\n");

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for (i = 0 ; i < 8; i++){
    for (j = 0; j < 60; j++){
        if (i == 2||i == 3|| i == 4||i == 5||i == 6)
            continue;
        x = rand()%90000+10000;
        futureSalariesPerPerson[i][j] = x;
    }
}

for (i = 2; i < 10; i++){
    for (j = 0; j < 60; j++){
        if (i == 4||i == 5|| i == 6||i == 7)
            continue;
        x = rand()%7000+3000;
        futureSalariesPerPerson[i][j] = x;
    }
}

for (i = 4; i < 7; i++){
    for (j = 0; j < 60; j++){
        x = rand()%3000;
        futureSalariesPerPerson[i][j] = x;
    }
}

//μέσολι όροι
int sum, count = 0;
printf("\nPrinting the esimated average sales per person in the next
60 weeks!\n");
// printf("\nsalesperson Average \n");
for (i = 0; i < 10; i++){
    for (j = 0, sum = 0, count = 0; j < 60; j++){
        sum += futureSalariesPerPerson[i][j];
        count++;
    }
    averageSalaryPerPerson[i]=sum/count;
}
printf("\nSalesperson Average \n");
for (i = 0; i < 10; i++)
    printf("%d %17d\n",i, averageSalaryPerPerson[i]);
} //end main

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