

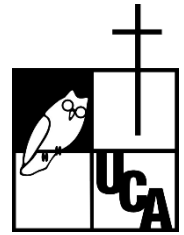
Universidad Centroamericana “José Simeón Cañas”

Facultad de Ingeniería y Arquitectura

Tutorías - Fundamentos de Programación

Ciclo 01/2021

Tutor: Ernesto José Canales Guillén



Ejercicios MIX

1. Write a program that allows the user to enter the last names of five candidates in a local election and the number of votes received by each candidate. The program should then output each candidate's name, the number of votes received, and the percentage of the total votes received by the candidate. Your program should also output the winner of the election. A sample output is:

Candidate	Votes Received	% of Total Votes
Johnson	5000	25.91
Miller	4000	20.73
Duffy	6000	31.09
Robinson	2500	12.95
Ashtony	1800	9.33
Total	19300	

The Winner of the Election is Duffy.

2. Write a program to calculate students' average test scores and their grades. You may assume the following input data:

Johnson 85 83 77 91 76
Aniston 80 90 95 93 48
Cooper 78 81 11 90 73
Gupta 92 83 30 69 87
Blair 23 45 96 38 59
Clark 60 85 45 39 67
Kennedy 77 31 52 74 83
Bronson 93 94 89 77 97
Sunny 79 85 28 93 82
Smith 85 72 49 75 63

Use three arrays: a one-dimensional array to store the students' names, a (parallel) two-dimensional array to store the test scores, and a parallel one-dimensional array to store grades. Your program must contain at least the following functions: a function to read and store data into two arrays, a function to calculate the average test score and grade, and a function to output the results. Have your program also output the class average.