

Programming Assignment #1

Student ID ending with an Odd Number

Write a program that will find the average of five (5) test scores for fifteen (15) different students. The average scores must be stored into an integer array.

Student ID ending with an Even Number

Write a program that will find the class average of fifteen (15) test scores for five (5) different tests. The class average must be stored into an integer array.

You are to have three separate arrays:

Note: `_jd` represents the initials of the programmer. Your array and function names should be named by replace the initials `jd` with your first and last initials

Arrays			
	Student Names	Scores	Averages
Name of array	students_jd	scores_jd	averages_jd
Size of array	[15]	[15][5]	[15] or [5]
Data for array	Initialized in code	Read from data file	Calculated and stored

Excluding the main function, your program should have three additional functions that will get the scores, calculate the averages and display your output.

Functions			
	Read Input File	Calculate Average	Output Results
Name of function	get_jd	calc_jd	prt_jd
Properties of function	Called from main	Called from main	Called from main
Definition of Function	Should pass scores array and add data to array	Should pass scores and average arrays. And add averages to array	Should pass students, scores and average arrays and print data

Data file should be named `data_jd.txt`

Sample output (ID ending in odd number)

Name	Score 1	Score 2	Score 3	Score 4	Score 5	Average
Bill	90	89	89	99	100	93
Tim	22	38	29	78	77	48
Betty	83	98	44	94	98	83
Jaden	98	98	78	87	67	85
Mary	87	88	67	98	78	83
Ashley	98	78	67	87	99	85
Danny	100	100	100	83	88	94
Ryan	83	92	83	98	29	77
Nicole	83	84	98	90	48	80
Tanya	98	83	78	87	98	88
Emily	88	84	78	98	49	81
Robert	49	89	90	89	78	79
Dale	48	84	90	89	98	80
John	87	77	99	77	55	79
Kevin	78	85	98	83	37	76

Sample output (ID ending in even number)

Name	Score 1	Score 2	Score 3	Score 4	Score 5
Bill	90	89	89	99	100
Tim	22	38	29	78	77
Betty	83	98	44	94	98
Jaden	98	98	78	87	67
Mary	87	88	67	98	78
Ashley	98	78	67	87	99
Danny	100	100	100	83	88
Ryan	83	92	83	98	29
Nicole	83	84	98	90	48
Tanya	98	83	78	87	98
Emily	88	84	78	98	49
Robert	49	89	90	89	78
Dale	48	84	90	89	98
John	87	77	99	77	55
Kevin	78	85	98	83	37
Average	79	84	79	89	73