

10.1 Movie Stats

Write a program that can be used to gather statistical data about the number of movies college students see in a month.

The program should perform the following steps:

- A) Ask the user how many students were surveyed. An array of integers with this many elements should then be dynamically allocated.
- B) Allow the user to enter the number of movies each student saw into the array.
- C) Calculate and display the average, median, and mode of the values entered.

Input Validation: Do not accept negative numbers for input

ZyBook will be looking for the following functions. Either *arrays* or *vectors* should be accepted by ZyBooks.

- A function to make an array or vectors - will dynamically allocates an array and return a pointer to it.
- A function to get the movie data
- A function to perform a selection Sort
- A function mode which will return the mode
- A function average which function calculates and returns the average

Click below to view examples of output [Output1](#) [Output2](#) [Output3](#)

Notes:

Start planning and desk checking

Include your final plan(pseudo code, algorithm and desk check) as a comment. Place it at the bottom of the code submitted to ZyBooks. I will check this manually.

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LAB
ACTIVITY

10.1.1: Movie Stats

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Rob Daglio

MDCCOP2335Spring2024

main.cpp

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**Develop mode****Submit mode**

Run your program as often as you'd like, before submitting for grading. Below, type any needed input values in the first box, then click **Run program** and observe the program's output in the second box.

Enter program input (optional)

If your code requires input values, provide them here.

Run program

Input (from above)

**main.cpp**
(Your program)

Output

Program output displayed hereCoding trail of your work [What is this?](#)

Retrieving signature

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