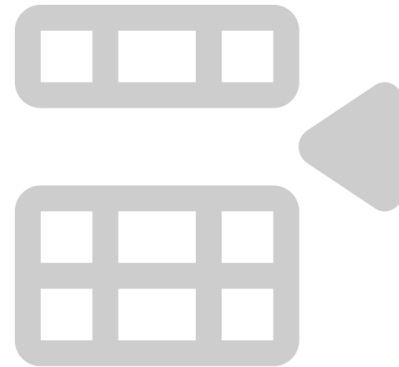




Course: 420-ENM-MT
Teacher: Jonathan Cyr
Date: October 2nd, 2018

CLASS 11 – PROJECT – 01

THE ARRAY OF NAMES



Project requirements

- ✓ This project assesses your ability to manipulate the following concepts:
 - Array of string
 - Sub programs (methods) with parameters
 - Implement algorithms to move elements in an array
- ✓ You need to respect the following constraints:
 - Declare an array of String[] of **10 elements**. (name: **nameList**)
 - Your software needs a **main menu** with the following characteristics:
 - It must be formatted exactly like the print screen included
 - Display the following menu options
 - 1. Display the list
 - 2. Insert element at a specific index
 - 3. Swap two elements (user enters two indexes)
 - Quit the program
 - Respect the following constraints
 - Do not implement user input validation (let's assume the user will never enter a bad element number from a menu or an option)
 - Your program must be divided into multiple sub-programs (methods)
 - main: Main loop to display the menu
 - menuPrint: prints the main menu to the console
 - vectorPrint: prints the content of the array to the console
 - optionDisplay: implements option 1 of the menu
 - optionInsert: implements option 2 of the menu
 - optionSwap: implements option 3 of the menu
 - Always return to main menu once an item execution is finished
- ✓ Zip your Java project folder, and upload it on LEA before the beginning of next class.
- ✓ The due date for this project is: Tuesday, October 9th 2018.

How the program should interact with the user:

```
MAIN MENU
STUDENT ID: 9758749
STUDENT NAME: Jonathan Cyr
```

1. Display the list
2. Insert an element
3. Swap two elements
4. Quit

Your choice? __

1 Main menu of the software

```
LIST CONTENT:
```

1. Jonathan
2. Roxanne
3. Jasmine
4. Sophianne
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Press ENTER to continue __

2 Option 1 of the main menu

```
INSERT AN ELEMENT
```

1. Jonathan
2. Roxanne
3. Jasmine
4. Sophianne
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Where to insert element? __

Enter the name: _____

3 Option 2 of the main menu

```
SWAP TWO ELEMENTS:
```

1. Jonathan
2. Roxanne
3. Jasmine
4. Sophianne
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

From element? __

To element? __

4 Option 3 of the main menu