

Object Oriented Programming & Design  
CS 244 - 001  
Department of Physics and Computer Science  
Medgar Evers College  
Exam 2: Extra Points

## Instructions:

- The exam requires completing a set of tasks within 25 minutes.
- Write your solution to sections in the EP directory of the Exam02 directory of your GitHub repository.
- Notes are not allowed.
- Cheating of any kind is prohibited and will not be tolerated.
- Violating and/or failing to follow any of the rules will result in an automatic zero (0) for the exam.

## Grading

Section	Maximum Points	Points Earned
1	5	
Total	5	

### Section I

Create a header file named "Name.h" and define the class *Name* within the namespace *EX* with a header guard. The class must contain

- ☐ a private string array field named *name* with a size of 3.
- ☐ a public default constructor that assigns "Jane", "", and "Doe" to the elements of *name* in order.
- ☐ a public copy constructor.
- ☐ a public assignment operator.
- ☐ a public empty destructor.
- ☐ a public constant getter method named GetGivenName() that returns the concatenation of the first element of *name* followed by the second element of *name* with a space between them.
- ☐ a public constant getter method named GetSurname() that returns the third element of *name*.
- ☐ a public setter method named SetFirstName() that only assigns the parameter to the first element of *name* if the parameter only contains letters.
- ☐ a public setter method named SetMiddleName() that only assigns the parameter to the second element of *name* if the parameter only contains letters.
- ☐ a public setter method named SetLastName() that only assigns the parameter to the third element of *name* if the parameter only contains letters.
- ☐ a public string virtual constant method named ToString() that takes no parameters. It returns a string in the format

*x, y z*

where *x* and *y* are the values of the third and first elements of *name* respectively, and *z* is the first character of second element of *name* if the element is not the empty string; otherwise, *z* is the empty string.

- ☐ an ostream operator that returns an outcome in the same format as ToString().