

CIS 623 Structured programming and formal methods

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In class exercise CX 00: a background survey

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- Last Name (Please print)

- First Name (Please print)
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1. (Multiple Choice question) In this question, please circle one answer (ie. a,b,c,d,e,f or g). If your answer is g, state the programming language in the space provided.

The programming language that you are most familiar with is:

- a. Java
 - b. C++ (or C#)
 - c. Python
 - d. Lisp, Scheme, ML or Haskell
 - e. C
 - f. Javascript
 - g. None of the above. Write your answer here:
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2. In your undergraduate studies, what's your major ? If you have more than one undergraduate degree, state so and give all the majors, the latest goes first.
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3. Please select one answer below (circle your answer) that best describe how you complete your assignments at SU.

- a. I do not have a personal computer (neither laptop nor desktop).
- b. I use a computer running Windows 10 or above.
- c. I use a Mac computer with an intel processor.
- d. I use a Mac computer with a M1 processor.
- e. I use a computer running a distribution of linux (eg. ubuntu, openSUSE etc.)
- f. None of the above. Please describe your answer in words below

Answer:

4. Let \mathbb{Z} be the set of all integers. Express the set of all even integers (E) by filling in the blanks below:

$$E = \{x \in \mathbb{Z} : \text{there is an integer } y \text{ such that } x = \quad \quad \quad \}$$

5. If A and B are two sets, then the Cartesian product of A and B , written as $A \times B$, is defined as:

$$A \times B = \{ \quad \quad \quad \}$$

6. Name your favorite sorting method and give a precise description of the algorithm. In your answer, you may use pseudocode but this is not required (A paragraph of precise description is fine)