

Foundational Principles of Cybersecurity

(Part 1)

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Due No Due Date **Points** 85 **Submitting** a website url

According to the NSA - there are 10 fundamental concepts of Cybersecurity.

Pick 5 of the 10 to focus on for this assignment.

ConceptCode (75)

For each concept (15pt):

1. Create two small C++ programs (10)
 1. Exemplar - e.g. code that does it right. (6)
 2. Non-Example - e.g. code that's wrong - either code you've developed from scratch or code that you've modified (4)
2. Find/Create a picture / gif that exemplifies the concept (1)
3. Create a github markdown file explaining each example/non-example, include the picture and relevant code snippets within your markdown file. (4)

Supplemental (10)

Your code should be well documented - each fundamental concept should be separated into its own directory. Include a global makefile to compile the programs. Include any needed libraries or helper functions.

Commit this code to github using the following structure:

/REPO_ROOT

- README.md (global - contains highlevel description of assignment and concepts)
- makefile (global)
- ConceptNumber/
 - src/
 - makefile (local, optional)
 - ConceptNumberExemplar
 - ConceptNumberNonExample
 - Image/GIF
 - conceptName.md
- ConceptNumber/
 - src/
 - makefile (local, optional)
 - ConceptNumberExemplar
 - ConceptNumberNonExample
 - Image/GIF
 - conceptName.md

The next homework has you doing the remaining five concepts. You may work in groups of up to n=2.

Submit a link to your repository. And/or Use classroom.github.com to clone a starting repository
(<https://classroom.github.com/g/Dozp7P69> (<https://classroom.github.com/g/Dozp7P69>))*Preferred