

Homework 0

This document is a PDF version of the file `ps0_submission.py` which is available on the course website. That file requires the PlayCrypt library, which can be found at <https://github.com/UCSDCSE107/playcrypt>. Documentation on how to use PlayCrypt, including installation instructions, can be found at https://ucsdcse107.github.io/playcrypt/quick_start.html.

For submission, you need to fill in the python3 functions corresponding to the different questions in the space provided for them in the `.py` file. You then must submit just the `ps0_submission.py` file on Gradescope under the assignment “Problem Set 0.” Note that you must name your submitted file as above. The autograder will then evaluate your submission and provide a score. This PDF file is just a reference for the problems, and only the `ps0_submission.py` file is required to be submitted for this assignment.

This assignment is primarily to ensure that you know how to retrieve and submit homework. Please attend discussion to learn how to retrieve and submit your assignments.

Problem 1 [20 points]

1. [10 points] List the first 10 prime numbers.
 2. [10 points] Write a function that takes three integers a, b, N , the last positive, and returns $(a + b) \bmod N$.
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