

CSS224: Assignment 1

Implement the following functions in assembly:

1. `mod357(x)` returns the value of $(x \% 3) + (x \% 5) + (x \% 7)$, where ‘%’ is the modulo operator.
2. `pow3(n)` return the value of 3^n . This function must return -1 when $n > 30$. Read <http://stackoverflow.com/questions/101439> if you prefer to implement this function in a non-trivial way.
3. `isprime(x)` returns 1 when x is a prime number. It returns 0 otherwise. For more information related to the prime number, check https://en.wikipedia.org/wiki/Primality_test.

Deadline: September 21, 2016; 16:00

Rules and Grading Scheme

- You must compile and test your programs on `css224.cholwich.net` before submitting them. For example, use `gcc -o test1 test1.c problem1.s` to compile the program for problem 1, and use `./test1` to test the program.
- Your user name on the server is “`u[student id]`”, and the initial password is your first name starting with a capital letter.
- Your programs must be submitted via `turnin` program on the server. Any other submission method will not be accepted.
- Any form of cheating will NOT be tolerated. Do not copy someone’s code or let someone copy your code. I will use a plagiarism detection program to check your submitted files.
- If you have any question related to this assignment, you can contact me at `cholwich at gmail.com`.
- Late submission will not be accepted.