

# CSE101, Winter 2020: A test assignment

## It always starts with Hello world

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- Follow instructions, and carefully read through the input/output formats.
- Clearly acknowledge sources, and mention if you discussed the problems with other students or groups. In all cases, the course policy on collaboration applies, and you should refrain from getting direct answers from anybody or any source. If in doubt, please ask the instructors or TAs.

## 1 Problem description

This is a simple assignment, meant to show the usual input/output format that will be followed in all assignments/tests. I have already solved it, and put in all the solution files in the Codio box. You may find these files useful, to handle future I/O and for compiling. Feel free to copy and modify them for future assignments.

**Main objective:** A simple twist on Hello world. Taking an input non-negative integer, we simply have to write “Hello world” repeated that many times.

**Format:** You should provide a Makefile. On running `make`, it should create the executable “hello”. You should run the executable with *two* command line arguments: the first is an input file, the second is the output file. For example, we would call the command `./hello in.txt output.txt`. The file `in.txt` will have inputs to the main program (as described below), and the file `solution.txt` will have the desired solution.

You must provide a file `README` (do not name it “`README.txt`”), with some description of the files, the usage, etc.

Each line of the input file will have a non-negative integer. (You can assume that the input is always of this format. You do not need to worry about improper inputs.) Here’s a simple example.

```
1
0
5
```

**Output:** On running the command, the following should be printed in the output file. For each line of the input file, there is a line in the output file with “Hello world” printed that many times, with a space between them.

- If the input integer is 0, there should be an empty line.

**Example commands and outputs:** In your Hello/ folder, you will see some example input and output files. So “test-input1.txt” has a test input, for which the output should be “ideal-output1.txt”. There are many examples (numbered 1, 2, etc.).