CO222: Programming Methodology Lab: 03

Command Line Binary Converter

In this lab, you are expected to build a command line tool for binary conversion. The converter should take inputs as command line arguments and produce outputs to the standard output (STDOUT). The tool should take three arguments as shown below (assuming that the tool is going to be called **binconvert**):

./binconvert -<input format> -<output format> <input>

Input/output format can be one of the followings:

Format	Description
В	A 32-bit binary representation
Н	An 8-digit hexadecimal representation
I	Integer
F	Single Precision Floating Point Number

Following are some example runtime scenarios:

When there is a mistake in the inputs such as in the following examples, a "usage" message should be printed and the program should terminate by returning a 1 (EXIT FAILURE).

```
./binconvert
Usage: ./binconvert -<input format> -<output format> <input>
./binconvert -B -H
Usage: ./binconvert -<input format> -<output format> <input>
```

For this exercise, you SHOULD NOT use any existing converters from the library functions or otherwise. Submit your program (named E16xxxbinconvert.c) before the deadline.