

CS 341 - Computer Architecture Lab

Assignment 1 - Number Representations

July 25, 2018

Problem 1. Write a C language program which executes in a loop - each iteration of the loop accepts an input from user which can be either an integer (without decimal point) or a floating point number (with decimal point). In response, the program should output the internal representation of the input number. The program should continue to accept user input until the user types END.

Problem 2. Find programmatically the smallest 'int' that cannot be exactly represented as a 32-bit 'float'.

Submission

Please follow the following directory structure for submission.

```
la1_[roll-no.].tar.gz
├─ problem1.c
├─ problem2.c
```

Deadline - 5:00 PM, 25th July 2018