Name :-Purval Madhukar Bhude

Roll No. S20230010193

Subject :- CA

Float Lab 1

To see number of operator

```
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/Float Lab 2/floatlab2_handout$ ./dlc -e bits.c dlc:bits.c:204:floatPower2: 4 operators dlc:bits.c:247:floatScale1d2: 10 operators dlc:bits.c:248:floatNegate: 3 operators
```

To see the score using btest

```
.
VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/Float Lab 2/floatlab2_handout$ make
gcc -0 -Wall -m32 -lm -o btest bits.c btest.c decl.c tests.c
btest.c: In function 'test_function':
btest.c:334:23: warning: 'arg_test_range' may be used uninitialized [-Wmaybe-uninitialized]
334 | if (arg_test_range[2] < 1)
btest.c:299:9: note: 'arg_test_range' declared here
              int arg_test_range[3]; /* test range for each argument */
  299
 rillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/Float Lab 2/floatlab2_handout$ ./btest
        Rating Errors Function
Score
 2
4
                    Θ
                              floatNegate
                   0
                              floatPower2
         4
                              floatScale1d2
 4
                   0
Total points: 10/10
```

To see the score using driver.pl

```
USF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/Float Lab 2/floatlab2_handout$ .<mark>/driver.pl</mark>/
1. Running './dlc -z' to identify coding rules violations.
2. Compiling and running './btest -g' to determine correctness score.

gcc -0 -Wall -m32 -lm -o btest bits.c btest.c decl.c tests.c

btest.c: In function 'test_function':

btest.c:334:23: warning: 'arg_test_range' may be used uninitialized [-Wmaybe-uninitialized]

334 | if (arg_test_range[2] < 1)
btest.c:299:9: note: 'arg_test_range' declared here
299 | int arg_test_range[3]; /* test range for each argument */
3. Running './dlc -Z' to identify operator count violations.
4. Compiling and running './btest -g -r 2' to determine performance score.

gcc -0 -Wall -m32 -lm -o btest bits.c btest.c decl.c tests.c

btest.c: In function 'test_function':

btest.c:334:23: warning: 'arg_test_range' may be used uninitialized [-Wmaybe-uninitialized]

334 | if (arg_test_range[2] < 1)
btest.c:299:9: note: 'arg_test_range' declared here
    299 | int arg_test_range[3]; /* test range for each argument */
5. Running './dlc -e' to get operator count of each function.
Correctness Results
                                        Perf Results
Points Rating Errors Points Ops
                                                                   Puzzle
             2
                           0
                                                                   floatNegate
                                                                   floatPower2
                           0
4
                                                     10
                                                                   floatScale1d2
Score = 16/16 [10/10 Corr + 6/6 Perf] (17 total operators)
```