

Name :-

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Lab Assignment 5

Data Lab 1

Running dlc command to check number of operators use

```
trillionaire@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab2/datalab-handout$ ./dlc -e bits.c
dlc:bits.c:187:ezThreeFourths: 6 operators
dlc:bits.c:204:isAsciiDigit: 11 operators
dlc:bits.c:219:rotateRight: 12 operators
dlc:bits.c:229:tmin: 1 operators
dlc:bits.c:245:replaceByte: 6 operators
dlc:bits.c:263:bitParity: 12 operators
```

Run make command

```
trillionaire@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab2/datalab-handout$ make
gcc -O -Wall -m32 -lm -o btest bits.c btest.c decl.c tests.c
bits.c: In function 'ezThreeFourths':
bits.c:185:16: warning: suggest parentheses around '+' inside '>>' [-Wparentheses]
  185 |     int b = ((a + (zero & 3) >> 2));
      |                ^^^^^^^^^^^^^
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 */
      |         ^^^^^^^^^^^^^
```

Running btest to check the score

```
trillionaire@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab2/datalab-handout$ ./btest
Score  Rating  Errors  Function
3      3        0    ezThreeFourths
3      3        0    isAsciiDigit
3      3        0    rotateRight
1      1        0    tmin
3      3        0    replaceByte
4      4        0    bitParity
Total points: 17/17
```