Name :-

Purval Madhukar Bhude

Roll No. S20230010193

Subject :- CA

Data Lab 1

Checking number of operations and checking the score using btest

```
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch$ cd datalab1
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1$ ls
S20230010193_bits.c  datalab-handout  datalab-handout.zip  datalab-new-handout  datalab-new-handout.zip  datalab0-handout
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1$ cd ^C
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1$ cd  datalab-new-handout
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout$ ls
datalab-handout
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout$ cd datalab-handout
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout/datalab-handout$ ls
Driverhdrs.pm  Driverlib.pm  Makefile  README  bits.c  bits.h  btest  btest.c  btest.h  decl.c  dlc  driver.pl  fshow  fshow.c  ishow  ishow.c  tests.c
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout/datalab-handout$ vi bits.c
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout/datalab-handout$ ./dlc -e bits.c
dlc:bits.c:181:isNegative: 5 operators
dlc:bits.c:192:isEqual: 2 operators
dlc:bits.c:202:copyLSB: 2 operators
dlc:bits.c:213:isZero: 2 operators
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout/datalab-handout$ make
gcc -O -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 */
      |         ^~~~~~~~~~~~~~
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout/datalab-handout$ ./btest
Score   Rating  Errors  Function
  2       2       0       isNegative
  2       2       0       isEqual
  2       2       0       copyLSB
  1       1       0       isZero
Total points: 7/7
trillioniare@LAPTOP-VUSF240R:/mnt/c/IIITS ASSIGNMENTS/Sem 2/Computer Arch/datalab1/datalab-new-handout/datalab-handout$
```