Assignments-2 on gdb

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Consider the program in folder assign2.

a. Put a breakpoint in 1 st executable line of the

innermost loop.

ANS: break d.c:9

```
(gdb) break d.c:9
Breakpoint 1 at 0x40054a: file d.c, line 9.
```

b. If you run and continue , how many times it is

supposed   to stop at breakpoint 1?

Ans: (gdb) c 5999999

```
[Inferior 1 (process 31011) exited with code 0347]
(gdb) info break 1
Num     Type           Disp Enb Address            What
1       breakpoint     keep y   0x000000000040054a in main at d.c:9
        breakpoint already hit 2000 times
        ignore next 5997999 hits
(gdb)
```

c. How will you continue so that it stops at 1000 th

iteration of innermost loop ?

ans: >> ignore 1 999

>> run

```
(gdb) ignore 1 999
Will ignore next 999 crossings of breakpoint 1.
```

d. How you can condition your breakpoint , so that the loop stops at every 1000 th iteration of innermost loop ?

ans: condition 1 k%1000==0

```
(gdb) condition 1 k%1000==0
(gdb) c
Continuing.
you have reached [0][29][1000]-th iteraion
you have reached [0][29][2000]-th iteraion

Breakpoint 1, main () at d.c:9
9               for (k = 0; k< 3000; k++)
(gdb) print k
$1 = 3000
```

e. Put a breakpoint in the 1 st line of outermost loop.

Ans: break 6

```
Reading symbols from /home/usr/student/ug/yr22/
(gdb) break 6
Breakpoint 1 at 0x400535: file d.c, line 6.
(gdb)
```

f. Disable breakpoint "1"

ans: disable 1

```
(gdb) d 1
(gdb) info b
Num     Type            Disp Enb Address             What
3       breakpoint      keep y   0x0000000000400535 in main at d.c:6
(gdb)
```

g. Add a command to breakpoint 2 so that it prints the value of "i" at each hit.

Ans: >> commands 2

>> p i

>> end

```
(gdb) commands 2
Type commands for breakpoint(s) 2, one per line.
End with a line saying just "end".
>p i
>end
(gdb) c
The program is not being run.
(gdb) run
Starting program: /home/usr/student/ug/yr22/be22114/d

Breakpoint 2, main () at d.c:7
7           for ( i= 0 ; i< 10; i++)
$2 = 0
(gdb)
```

h. Delete breakpoint 2.

Ans: delete 2

```
(gdb) d 2
(gdb) info b
No breakpoints or watchpoints.
(gdb)
```