

You can save breakpoints to a file for later use using save command

```
(gdb) b factorial
Note: breakpoint 3 also set at pc 0x40056e.
Breakpoint 4 at 0x40056e: file debug_test.c, line 6.
(gdb) b 16
Breakpoint 5 at 0x4005ef: file debug_test.c, line 16.
(gdb) save breakpoint breakpoints.txt |
Saved to file 'breakpoints.txt'.
(gdb) quit
```

You can load the breakpoints from a file later using source command

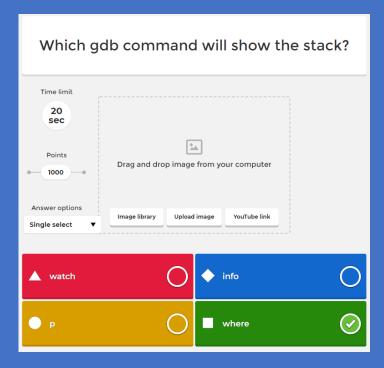
```
(gdb) source breakpoints.txt

Breakpoint 1 at 0x56e: file debug_test.c, line 6.

Breakpoint 2 at 0x56e: file debug_test.c, line 6.

Breakpoint 3 at 0x5ef: file debug_test.c, line 16.

(gdb)
```



You can always tell where you are in the program by using the where command, which gives you a stack and the specific line number you are one

```
#0 factorial (i=1) at debug_test.c:6_
#1 0x004005ae in factorial (i=2) at debug_test.c:10
#2 0x004005ae in factorial (i=3) at debug_test.c:10
#3 0x004005ae in factorial (i=4) at debug_test.c:10
#4 0x004005eb in main (argc=1, argv=0xbffff234) at debug_test.c:15
(gdb)
```

### Which gdb command steps the program forward one statement, regardless of the kind of statement it is on? Time limit 30 sec Points Drag and drop image from your computer Answer options Single select Image library Upload image VouTube link next

finish

continue

### ■ There are four ways to advance the program in gdb

next (n) steps the program forward one statement, regardless of the kind of statement it is on

```
int factorial( int i ) {
    if ( i == 1 ) {
        return( 1 );
    }
    return( factorial(i-1)*i );
}
int main( int argc, char *argv[] ) {
    int x = factorial(5);
    printf( "Factorial : %d! = %d\n", 5, );
    return( 0 );
}
```

## Which gdb command continues until the function returns? Time limit 20 Sec Points Drag and drop image from your computer 1000 Answer options Single select Continue Time limit Points From Your computer Finish Onext Image library Finish Onext Step

```
int factorial( int i ) {
    if ( i == 1 ) {
        return( 1 );
    }
    return( factorial(i-1)*i );
    int main( int argc, char *argv[] ) {
        int x = factorial(5);
        printf( "Factorial : %d! = %d\n", 5, );
        return( 0 );
}
```

# Which gdb command will list breakpoints? Time limit 20 sec Points Drag and drop image from your computer Answer options Single select Image library Upload image YouTube link Ist breakpoints Info breakpoints get breakpoints where breakpoints

```
If you want to see your breakpoints use the info breakpoints command

[(gdb) info breakpoints Disp Enb Address What breakpoint keep y 0x0040056e in factorial at debug_test.c:6]

| Stop only if i<=1 breakpoint already hit 1 time ((gdb) | |
```

Which option of gcc compiler produces debugging information to be used in gdb (such as line numbers)

Time limit
20
Sec
Points
Drag and drop image from your computer

Answer options
Single select
Image library
Upload image
YouTube link

- g

- g

- g

### **Compiling for debugging**

- Option –g produces debugging information to be used in gdb gcc -Wall -g debug\_test.c -o debug\_test
- If you forget —g option when compiling, gdb will still work, but will be missing important information for debugging, such as line numbers.
- -ggdb is another option to produce useful information for debugging