

Run

Debug

Stop

Share

Save

Beautify

Language

main.c

```
1 - /*****
2
3 Welcome to GDB Online.
4 GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
5 C#, OCaml, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite,
6 Code, Compile, Run and Debug online from anywhere in world.
7
8 *****/
9 #include <stdio.h>
10
11 int main()
12 {
13     int i,j;
14     for(i=0;i<100,j!=3;i++,j++){
15         printf("i=%d\n",i);
16     }
17     return 0;
18 }
19
```

input

Debug Console

start pause continue step over step into step out help

Starting program: /home/a.out

Breakpoint 1, main () at main.c:14

14 for(i=0;i<100,j!=3;i++,j++){

(gdb)

Call Stack

#	Function	File:Line
0	main	main.c:14

Local Variables

Variable	Value
i	0
j	0

Display Expressions

Expression	Value
Enter expression to watch	

Breakpoints and Watchpoints

	#	Description	
<input checked="" type="checkbox"/>	1	in main at main.c:14	<input checked="" type="checkbox"/>

main.c

```
1 - /*****
2
3 Welcome to GDB Online.
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8 *****/
9 #include <stdio.h>
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11 int main()
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13     int i,j;
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15         printf("i=%d\n",i);
16     }
17     return 0;
18 }
19
```

input

Debug Console

start pause continue step over step into step out help

i=0

14 for(i=0;i<100,j!=3;i++,j++){

(gdb) next

15 printf("i=%d\n",i);

(gdb)

Call Stack

#	Function	File:Line
0	main	main.c:15

Local Variables

Variable	Value
i	1
j	1

Display Expressions

Expression	Value
Enter expression to watch	

Breakpoints and Watchpoints

	#	Description	
<input checked="" type="checkbox"/>	1	in main at main.c:14	<input checked="" type="checkbox"/>

The screenshot shows the GDB Online interface with a C program being debugged. The program code is as follows:

```
1 //*****
2
3 Welcome to GDB Online.
4 GDB online is an online compiler and debugger tool for C, C++, Python, Java, PHP, Ruby, Perl,
5 C#, OCaml, VB, Swift, Pascal, Fortran, Haskell, Objective-C, Assembly, HTML, CSS, JS, SQLite,
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9 #include <stdio.h>
10
11 int main()
12 {
13     int i,j;
14     for(i=0;i<100,j!=3;i++,j++){
15         printf("i=%d\n",i);
16     }
17     return 0;
18 }
19
```

The right sidebar shows the following panels:

- Call Stack:**

#	Function	File:Line
0	main	main.c:17
- Local Variables:**

Variable	Value
i	3
j	3
- Display Expressions:**

Expression	Value
Enter expression to watch	
- Breakpoints and Watchpoints:**

	#	Description	
<input checked="" type="checkbox"/>	1	in main at main.c:14	✕

The bottom panel shows the debug console with the following output:

```
i=2
14     for(i=0;i<100,j!=3;i++,j++){
(gdb) next
17     return 0;
(gdb)
```

程式會停下。

由上方 3 張圖片可知，雖然沒有設定 y 的值為何，但當迴圈開始後， y 的值被預設為 0，所以迴圈每執行一次， x 和 y 都會加 1，2，當 $y=3$ 時，迴圈會直接結束。