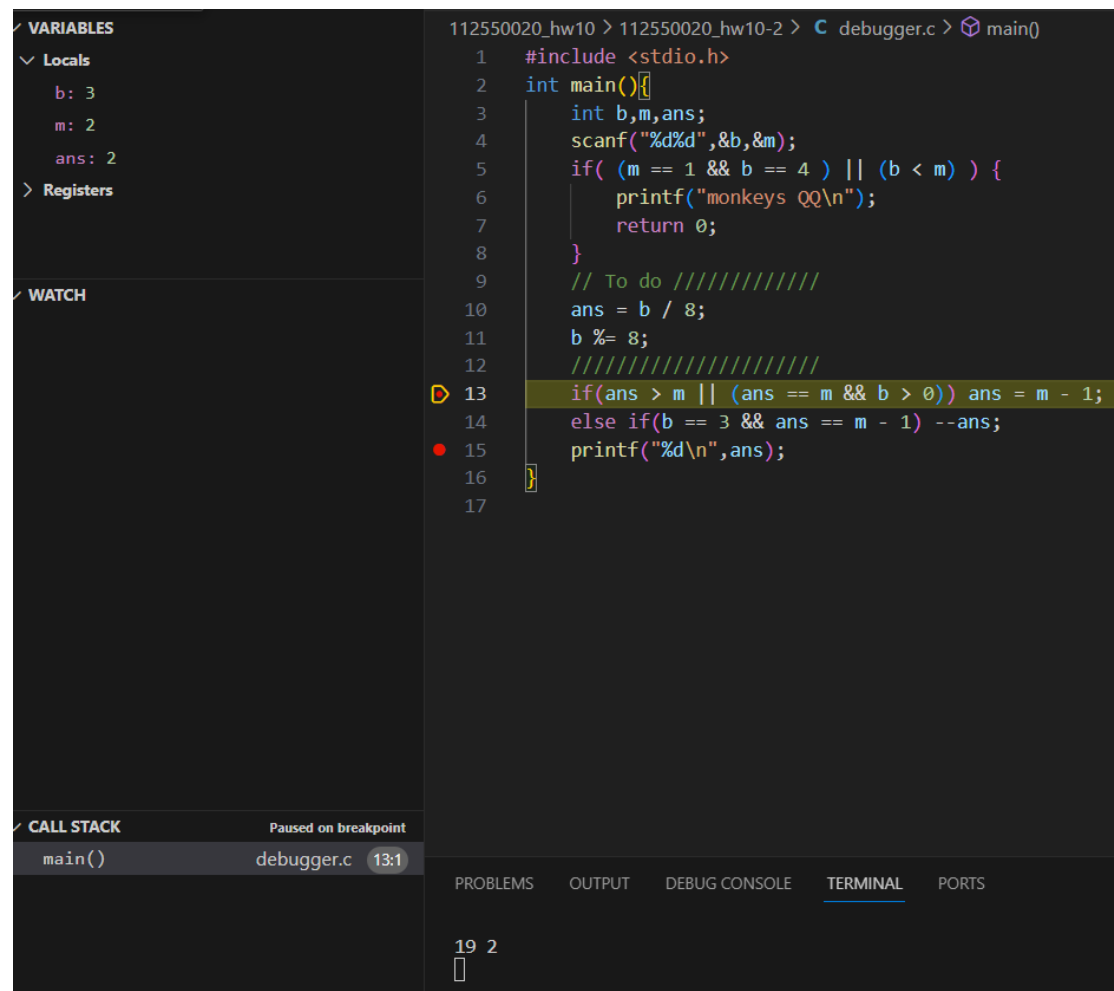


# 112550020 蔡懷恩

The question require No monkey should receive exactly 4 bananas.



The screenshot shows a debugger window for a C program. The left sidebar has three sections: 'VARIABLES' showing 'b: 3', 'm: 2', and 'ans: 2'; 'WATCH' which is empty; and 'CALL STACK' showing 'main()' at 'debugger.c 13:1'. The main area displays the source code of '112550020\_hw10.c'. The code includes `<stdio.h>` and defines `main()`. It declares `int b, m, ans;` and reads input with `scanf("%d%d", &b, &m);`. A conditional check `if( (m == 1 && b == 4) || (b < m) )` prints 'monkeys QQ\n' and returns 0. A comment `// To do` is followed by `ans = b / 8;` and `b %= 8;`. Line 13, `if(ans > m || (ans == m && b > 0)) ans = m - 1;`, is highlighted with a yellow background and a yellow arrow. Line 14, `else if(b == 3 && ans == m - 1) --ans;`, has a red dot breakpoint. Line 15 prints the answer. The bottom terminal shows the input '19 2'.

```
112550020_hw10 > 112550020_hw10-2 > C debugger.c > main()
1  #include <stdio.h>
2  int main(){
3      int b,m,ans;
4      scanf("%d%d",&b,&m);
5      if( (m == 1 && b == 4) || (b < m) ) {
6          printf("monkeys QQ\n");
7          return 0;
8      }
9      // To do
10     ans = b / 8;
11     b %= 8;
12     //
13     if(ans > m || (ans == m && b > 0)) ans = m - 1;
14     else if(b == 3 && ans == m - 1) --ans;
15     printf("%d\n",ans);
16 }
17
```

19 2

The condition of line 14 is matched.

But the bananas for each monkey are 8 8 3.

The answer should not decrease.

In line 14:else if(**b == 3** && ans == m - 1) --ans;

I think the bananas should be distributed to each monkey at first.

Rewriting in “To Do”,

b = b-m;

ans = b / 7;

b %= 7;

```
1  #include <stdio.h>
2  int main(){
3      int b,m,ans;
4      scanf("%d%d",&b,&m);
5      if( (m == 1 && b == 4 ) || (b < m) ) {
6          printf("monkeys QQ\n");
7          return 0;
8      }
9      // To do //////////
10     b = b-m;
11     ans = b / 7;
12     b %= 7;
13     //////////
14     if(ans > m || (ans == m && b > 0)) ans = m - 1;
15     else if(b == 3 && ans == m - 1) --ans;
16     printf("%d\n",ans);
17 }
```