```c
 1  // file: gcd-iter.c
 2  //
 3  // Euclidean algorithm:
 4  // gcd(a, b) = gcd(b, a % b)
 5  //
 6  // Created by hfwei on 2023/11/9.
 7
 8  #include <stdio.h>
 9
10  int GCD(int a, int b);
11
12  int main() {
13    int a = 130;
14    int b = 124;
15
16    printf("gcd(%d, %d) = %d\n", a, b, GCD(a, b));
17
18    return 0;
19  }
20
21  int GCD(int a, int b) {
22    while (b != 0) {
23      int tmp = b;
24      b = a % b;
25      a = tmp;
26    }
27
28    return a;
29  }
```