



main.c



Run

Output

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3
4 // Euclidean algorithm to compute gcd
5 unsigned long long gcd(unsigned long long a,
6 unsigned long long b) {
7     while (b != 0) {
8         unsigned long long temp = b;
9         b = a % b;
10        a = temp;
11    }
12    return a;
13 }
14 int main() {
15     // Example values (use small numbers for
16     // demo purposes)
17     unsigned long long p = 61;
```

Non-trivial factor of n found: 61
Other factor is: 53

=== Code Execution Successful ===

main.c

Run

Output

Clear

```
23 unsigned long long m = 61;
24
25 // Compute gcd
26 unsigned long long factor = gcd(m, n);
27
28 if (factor > 1 && factor < n) {
29     printf("Non-trivial factor of n found:
        %llu\n", factor);
30     printf("Other factor is: %llu\n", n /
        factor);
31 } else {
32     printf("No non-trivial factor found.\n"
        );
33 }
34
35 return 0;
36 }
37
```

Non-trivial factor of n found: 61
Other factor is: 53

=== Code Execution Successful ===