

```
#include <stdio.h>
#include <stdlib.h>

int main(int argc, char *argv[])
{
    int a;
    int b;
    int c;
    printf("==== GCD (Greatest Common Divisor) 最大公因數====\n");
    printf("Please enter the first integer: ");
    scanf("%d", &a);
    printf("Please enter the second integer: ");
    scanf("%d", &b);
    c=gcd(a,b);
    printf("GCD is %d\n",c);
    system("PAUSE");
    return 0;
}

int gcd(int m, int n)
{
    int remainder;

    while (n != 0)
    {
        remainder = m % n;    // m mod n
        if (remainder == 0)
            return n;
        m = n;
        n = remainder;
    }
}
```