

```

1 //=====
2 // Name      : H34086115_hw9-3.cpp
3 // Author    :
4 // Version   :
5 // Copyright : Your copyright notice
6 // Description : Hello World in C++, Ansi-style
7 //=====
8
9 #include <iostream>
10 using namespace std;
11
12 int gcd(int x, int y)
13 {
14     if(y == 0)
15     {
16         return x;
17     }
18     else
19     {
20         return gcd(y, x % y);
21     }
22 }
23
24 int main()
25 {
26     int x, y;
27
28     cout << "Input x number: ";
29     cin >> x;
30     cout << "Input y number: ";
31     cin >> y;
32     if (x < y) {
33         cout << "x should be greater than y, try again" << endl;
34         cout << "Input x number: ";
35         cin >> x;
36         cout << "Input y number: ";
37         cin >> y;
38     }
39
40     cout << "Greatest common divisor is " << gcd(x, y) << endl;
41     return 0;
42 }
43

```

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<terminated> (exit value: 0) H34086115_hw9-3.exe [
Input x number: 57
Input y number: 66
x should be greater than y, try again
Input x number: 66
Input y number: 57
Greatest common divisor is 3

```