

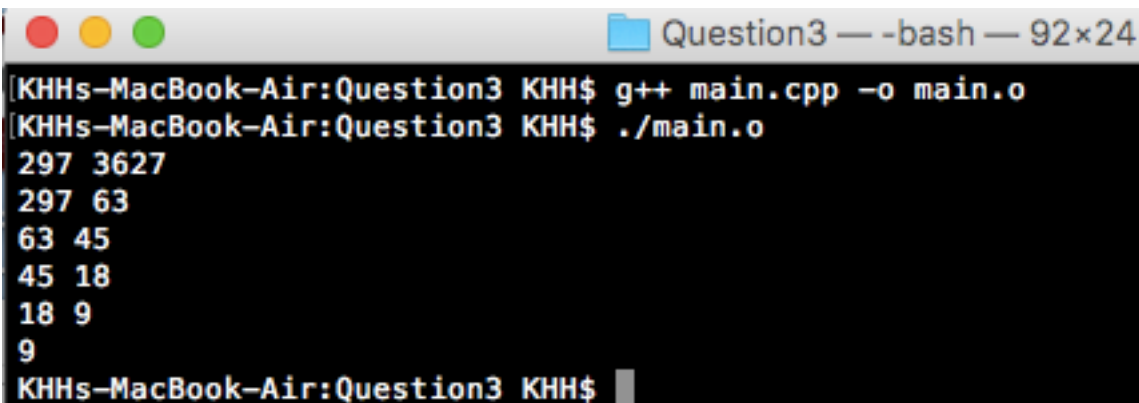
```

//
// main.cpp
// testing
//
// Created by 關曉康 on 11/12/2017.
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#include<iostream>
using namespace std;

int gcd(int x, int y){
    if (y>x){
        int temp = x;
        x = y;
        y = temp;
    }
    int y_new = y;
    for(int i = 1; x>=y_new; i++){
        y_new = y*i;
    }
    y_new = y_new - y;
    int d = x - y_new;
    if(d==0){
        return y;
    }
    cout << y <<" "<< d << endl;
    return gcd(y,d);
}

int main(){
    int a,b;
    cin >> a >> b;
    cout << gcd(a,b) << endl;;
    return 0;
}

```



```

Question3 — -bash — 92x24
[KHHs-MacBook-Air:Question3 KHH$ g++ main.cpp -o main.o
[KHHs-MacBook-Air:Question3 KHH$ ./main.o
297 3627
297 63
63 45
45 18
18 9
9
KHHs-MacBook-Air:Question3 KHH$

```