**Program :**

#include <bits/stdc++.h>

using namespace std;

int main()

{

    int q, r1, r2, r, t1 = 0, t2 = 1, t, tmp;

    int s1 = 1, s2 = 0, s, smp;

    cout<<"Enter two numbers: ";

    cin>>r1 >>r2;

    cout << "\nq\t"<< "r1\t"<< "r2\t"<< "r\t"<< "t1\t"<< "t2\t"<< "t\t"<< "s1\t"<< "s2\t"<< "s\t" << endl;

    cout << "--------------------------------------------------------------------------"<<endl;

    while (r2 > 0)

    {

        q = r1 / r2;

        r = r1 - q \* r2;

        cout << q << "\t" << r1 << "\t" << r2 << "\t" << r << "\t";

        r1 = r2;

        r2 = r;

        t = t1 - q \* t2;

        cout << t1 << "\t" << t2 << "\t" << t << "\t";

        t1 = t2;

        t2 = t;

        s = s1 - q \* s2;

        cout << s1 << "\t" << s2 << "\t" << s << "\t" << endl;

        smp = s1;

        s1 = s2;

        s2 = s;

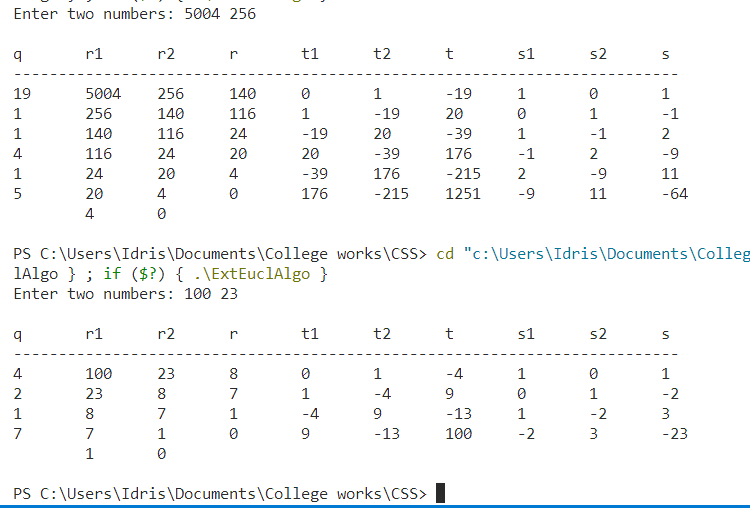
    }

    cout << "\t" << r1 << "\t" << r2 <<endl<<endl;

    return 0;

}

**Output :**

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