#include <stdio.h>

#include <math.h>

typedef struct GCD{

int d;

int x;

int y;

}gcd;

FILE \*inF, \*outF;

gcd Extended\_Euclid(int a, int b);

void main()

{

int A, B;

inF = fopen("input.txt", "r");

fscanf(inF, "%d %d", &A, &B);

fclose(inF);

gcd result = Extended\_Euclid(A,B);

outF = fopen("output.txt", "w");

fprintf(outF, "%d %d %d", result.x, result.y, result.d);

fclose(outF);

}

gcd Extended\_Euclid(int a, int b)

{

gcd tmp;

if (b == 0)

{

tmp.d = a;

tmp.x = 1;

tmp.y = 0;

return tmp;

}

tmp = Extended\_Euclid(b, a % b);

gcd result;

result.d = tmp.d;

result.x = tmp.y;

result.y = (tmp.x - (a / b) \* tmp.y);

return result;

}