```
#include <stdio.h>
long long int extended_euclidean_algorithm
long long int a,
long long int b,
long long int *x,
long long int *y
  if (b == 0) {
     *x = 1;
     *y = 0;
     return a;
  long long int x1, y1;
  long long int gcd = extended_euclidean_algorithm(b, a % b, &x1, &y1);
  x = y1;
  y = x1 - (a/b) + y1;
  return gcd;
int main() {
  long long int a, b, x, y;
  printf("Enter two numbers: ");
  scanf("%lld %lld", &a, &b);
  long long int gcd = extended_euclidean_algorithm(a, b, &x, &y);
  printf("GCD of %lld and %lld is: %lld\n", a, b, gcd);
  printf("Coefficients x and y are: x = \%lld, y = \%lld\n", x, y);
  return 0;
```