



int gcd (int a, int b) { if (a2b==0) roturn b; // note: size of in put = second # (b) return gcd(b, asb); ኝ Example trace: (8, 12) -> (12, 8) -> (8, 4) -> Aturn / 5ize 5ize 5:ze Now the extended scd: gcd(a,b) = ua + vb whore u, v e Z Example: a=8, b=12. Then scd(8,12) =4 = -1.8 + 1.12 Question: Now to find u + v? int xgcd (int a, int b, int & u int & v);

inputs

outputs