

```
1  /*
2    | Extended Euclidean Algorithm |
3    Desc: Find a way to represent GCD in terms of a and b for which  $a \cdot x + b \cdot y =$ 
gcd(a,b)
4    Source: KawakiMeido
5    State: Untested lmao
6  */
7
8  pll extend_euclid(ll a, ll b) {
9      if (b == 0) { return {1, 0}; }
10     pll p = extend_euclid(b, a % b);
11     return {p.se, p.fi - a / b * p.se};
12 }
```