

Na Przypale Albo Wcale

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1 Data structures

Data structures (1)

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extended-gcd/main.cpp  
Description: Dla danego (a,b) znajduje takie (gcd(a,b),x,y), że ax+by=gcd(a,b)  
Time: \mathcal{O}(\log(\max(a,b)))  
Memory: same  
Usage: int gcd, x, y;  
tie(gcd, x, y) = extendedGcd(a, b);  
402db5, 7 lines  
tuple<LL, LL, LL> extendedGcd(LL a, LL b) {  
if(a == 0)  
    return {b, 0, 1};  
LL x, y, nwd;  
tie(nwd, x, y) = extendedGcd(b % a, a);  
return {nwd, y - x * (b / a), x};  
}
```

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