2019/6/24 extgcd.hpp

```
1 // gcd(a, b)
2 template<typename T>
3 T gcd(T a, T b)
 4 {
            if (b == 0)
                 return a;
            return gcd(b, a % b);
 8 }
 9
// ax+by=gcd(x,y)となるx,yを求める
// 返り値は gcd(a,b)
// verified: http://judge.u-aizu.ac.jp/onlinejudge/review.jsp?rid=3386893
template<typename T> T extgcd(T a, T b, T &x, T &y)
15 {
           T d = a;
if (b != 0)
{
16
17
18
                  d = extgcd(b, a % b, y, x);
y -= (a / b) * x;
19
20
           }
else
21
22
23
            {
                x = 1;
y = 0;
24
25
26
            return d;
27
28 }
29
```

localhost:4649/?mode=clike 1/1