

```
1 template<typename T>
2 T gcd(T a, T b) {
3     if (a % b == 0) return b;
4     gcd(b, a%b);
5 }
6
7 template<typename U>
8 U gcd_multi(vector<U> A) {
9     int n = A.size();
10    if (n == 1) return A[0];
11    int G = gcd(A[0], A[1]);
12    if (n == 2) return G;
13    for (int i = 2; i < n; ++i) G = gcd(G, A[i]);
14    return G;
15 }
16
17 template<typename U>
18 U lcm(U a, U b) {
19     U ans = a*b/gcd(a, b);
20     return ans;
21 }
```