

```
1 #include <bits/stdc++.h>
2 const int INF = 1e9;
3 const int MOD = 1e9+7;
4 const long long LINF = 1e18;
5 #define dump(x) cout << 'x' << ' = ' << (x) << ' ` `;
6 #define FOR(i,a,b) for(int i=(a);i<(b);++i)
7 #define REP(i,n) for(int i=0;i<(n);++i)
8 #define REPR(i,n) for(int i=n;i>=0;i--)
9 #define FOREACH(x,a) for(auto& (x) : (a) )
10 typedef long long ll;
11 using namespace std;
12
13 //N^P mod M を高速で求める
14 ll RepeatSquaring(ll N, ll P, ll M){
15     if(P==0) return 1;
16     if(P%2==0){
17         ll t = RepeatSquaring(N, P/2, M);
18         return t*t % M;
19     }
20     return N * RepeatSquaring(N, P-1, M);
21 }
```