2019/7/12 mpow.cpp

```
1 #include <bits/stdc++.h>
 2 const int INF = 1e9;
 3 const int MOD = 1e9+7;
 4 const long long LINF = 1e18;
#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 // x^n \pmod{M}
14 ll mpow(ll x, ll n) {
15
       ll ans = 1ll;
       while(n != 0){
16
17
            if (n\&1) ans = ans*x%MOD;
18
            x = x*x\%MOD;
19
            n = n >> 1;
20
21
       return ans;
22 }
```

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