

快速幂

```
int qpow(int a, int k, int mod){
    int res = 1;
    while(k){
        if(k & 1) res = res * a % mod;
        a = a * a % mod;
        k >>= 1;
    }
    return res;
}
```

龟速乘

```
ll qadd(ll a, ll k, ll mod){
    ll res = 1;
    while(k){
        if(k & 1) res = res * a % mod;
        a = a * a % mod;
        k >>= 1;
    }
    return res;
}
```