

快速幂

```
ll fpm(ll x, ll power, ll mod){
    ll ans=1;
    x%=mod;
    for (;power;power>>=1, (x*=x)%=mod) if(power&1) (ans*=x)%=mod;
    return ans;
}
```

Exgcd

```
void Exgcd(ll a, ll b, ll &x, ll &y) {
    if (!b) x=1, y=0;
    else Exgcd(b, a%b, y, x), y-=a/b*x;
}
int main(){
    ll x, y, a, p;
    cin >> a >> p;
    Exgcd(a, p, x, y);
    x=(x%p+p)%p;
    printf ("%lld\n", x); //x是a在mod p下的逆元
    return 0;
}
```