```
#include "inv_mult.h"
inv_mult::inv_mult(ZZ a, ZZ n)
    this \rightarrow a = a;
    this \rightarrow n = n;
ZZ inv_mult::get_result(){
    ZZ save=n;
   ZZ aux, r, q;
    ZZ inv1;
    inv1=0;
    ZZ inv2;
    inv2=1;
    do {
        q=n/a;
        r = n-a*q;
        n=a; a=r;
        aux = inv1-q*inv2;
        inv1=inv2;
        inv2=aux;
    \}while(r!=0);
    if(inv1>0)
        return inv1;
    return save+inv1;
}
```