```
#ifndef RSA H
#define RSA H
#include <fstream>
#include <time.h>
#include <stdlib.h>
#include <string>
#include <sstream>
#include <mat.h>
#include <NTL/ZZ.h>
#include <iostream>
using namespace std;
using namespace NTL;
class RSA
    public:
        RSA();
        ZZ cifrar(string, ZZ, ZZ);
        string descifrar(ZZ);
        ZZ aleatorio(ZZ, string, ZZ);
        void generarclave();
        string alfabeto;
        ZZ publica;
        ZZ n;
        mat fun;
    private:
        ZZ privada;
};
#endif // RSA_H
```