

代码片段

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- FastIO
- 高斯消元解异或方程组

FastIO

```
#define gc() (p1 == p2 ? (p2 = buf + fread(p1 = buf, 1, 1 << 20, stdin), p1 == p2 ? EOF  
#define read() ({ int x = 0, f = 1; char c = gc(); while(c < '0' || c > '9') { if (c ==  
char buf[1 << 20], *p1, *p2;
```

高斯消元解异或方程组

```
std::bitset<1010> matrix[2010]; // matrix[1~n]: 增广矩阵, 0 位置为常数  
// n 为未知数个数, m 为方程个数, 返回方程组的解, 多解 / 无解返回一个空的 vector)  
std::vector<bool> GaussElimination(int n, int m) {  
    for (int i = 1; i <= n; i++) {  
        int cur = i;  
        while (cur <= m && !matrix[cur].test(i)) cur++;  
        if (cur > m) return std::vector<bool>(0);  
        if (cur != i) swap(matrix[cur], matrix[i]);  
        for (int j = 1; j <= m; j++)  
            if (i != j && matrix[j].test(i)) matrix[j] ^= matrix[i];  
    }  
    std::vector<bool> ans(n + 1, 0);  
    for (int i = 1; i <= n; i++) ans[i] = matrix[i].test(0);  
    return ans;  
}
```