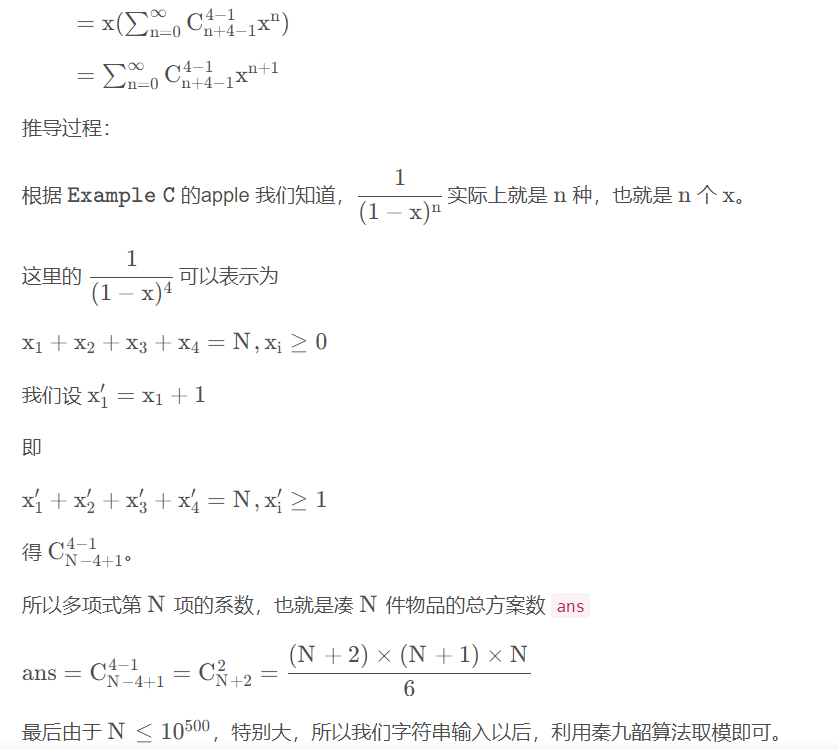
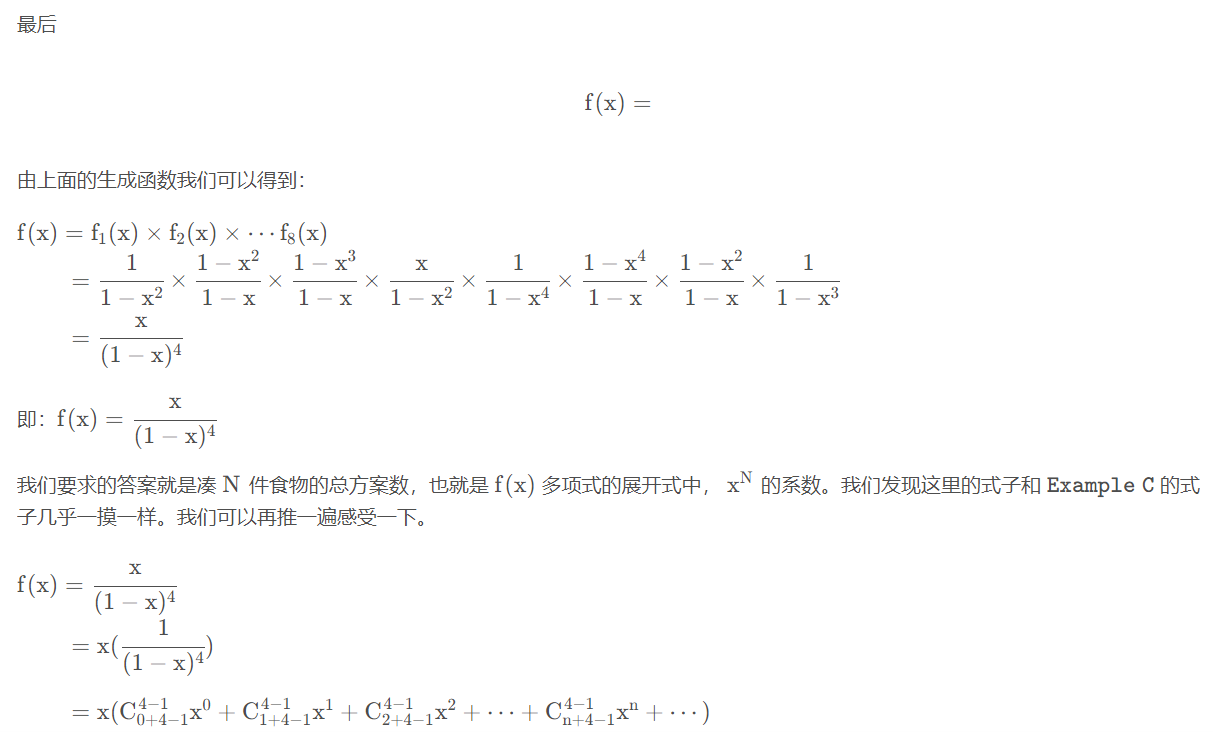
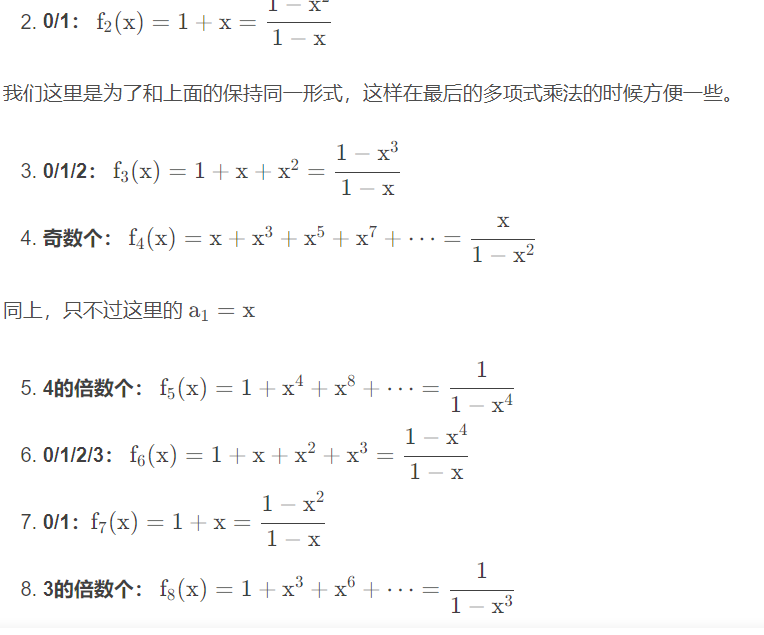
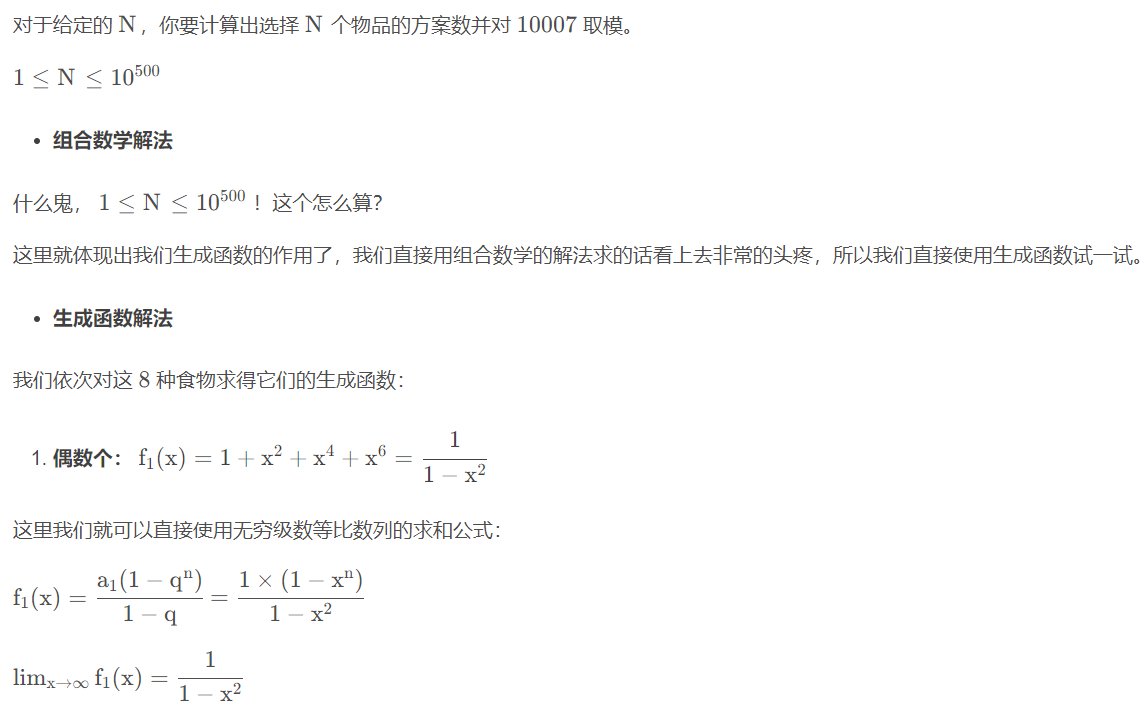
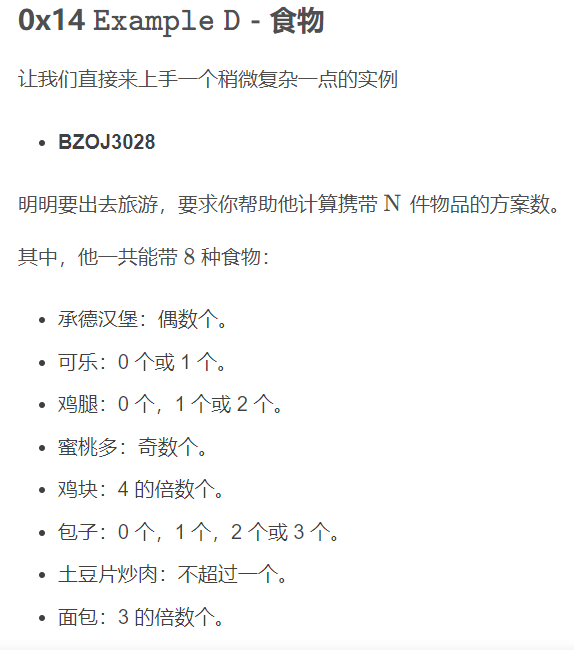


上面的这个公式非常的重要，能够用最后计算出来的生成函数推出来每一项的项数



const int p = 10007;

string s;

int main()

{

cin >> s;

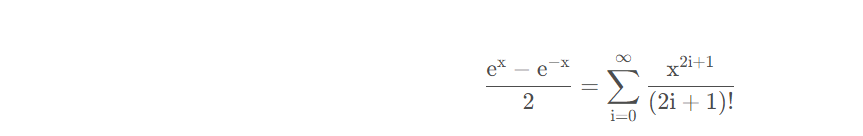
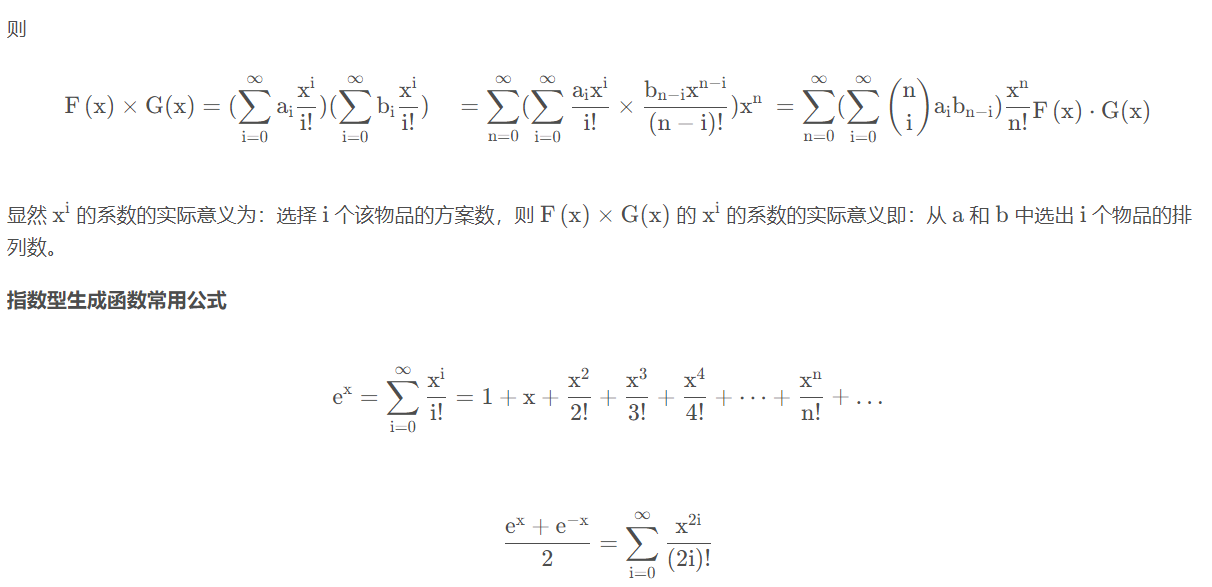
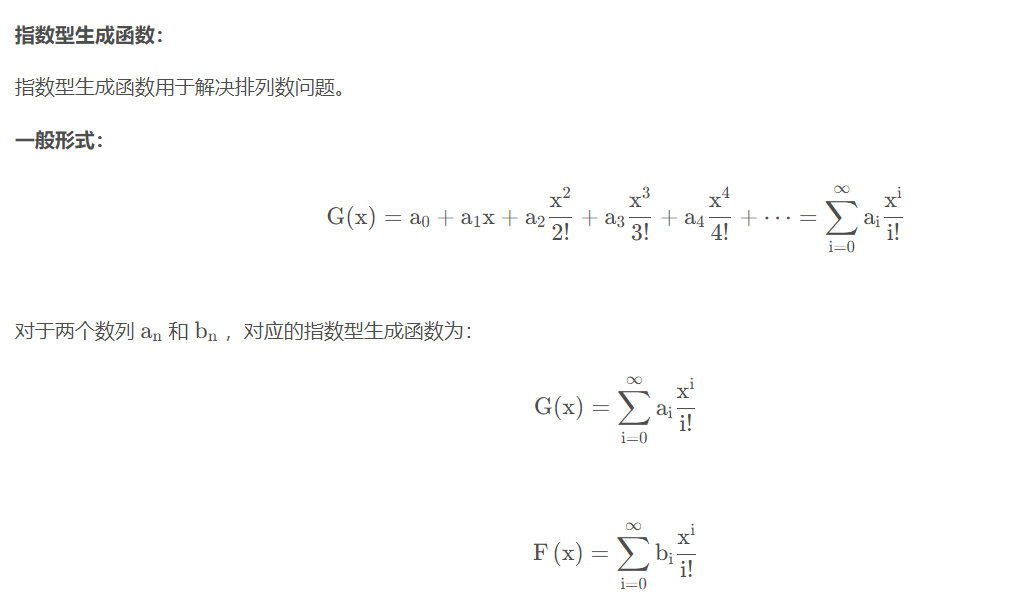
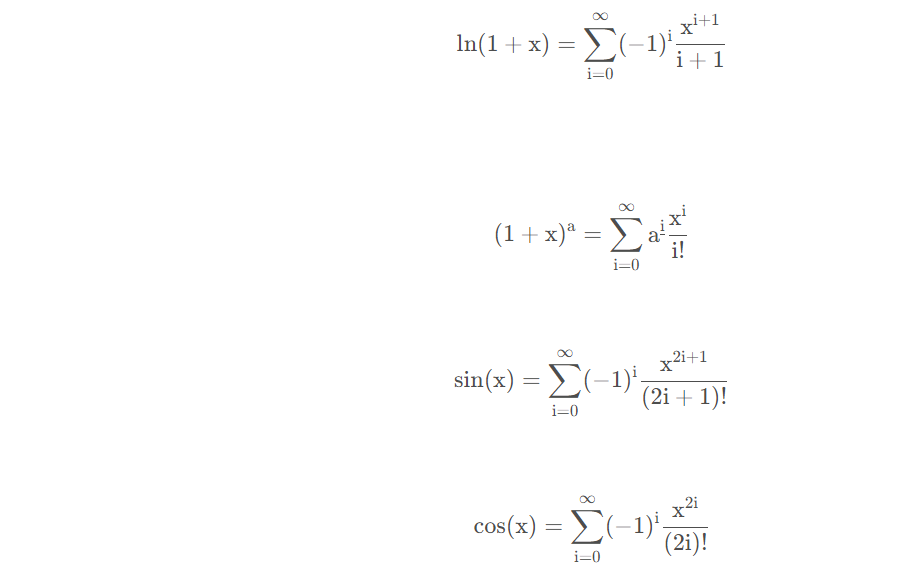
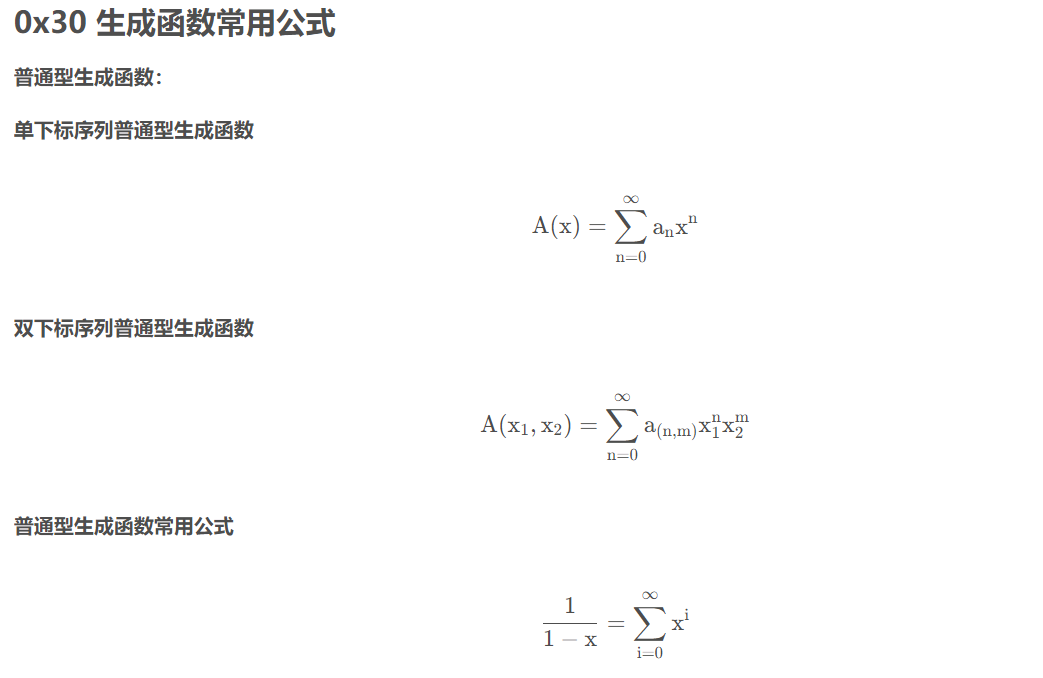
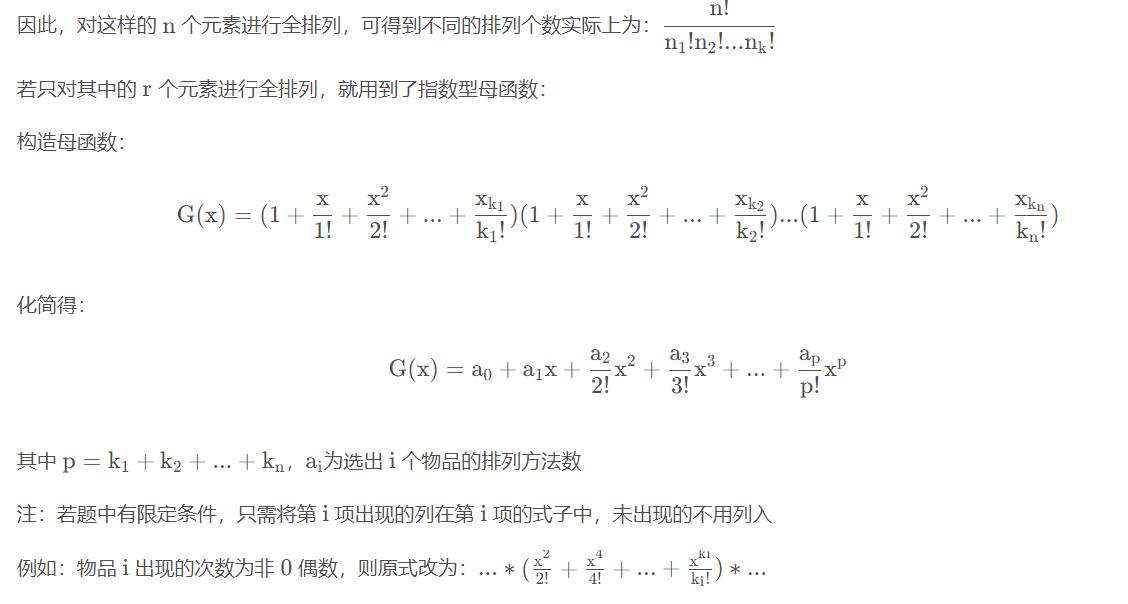
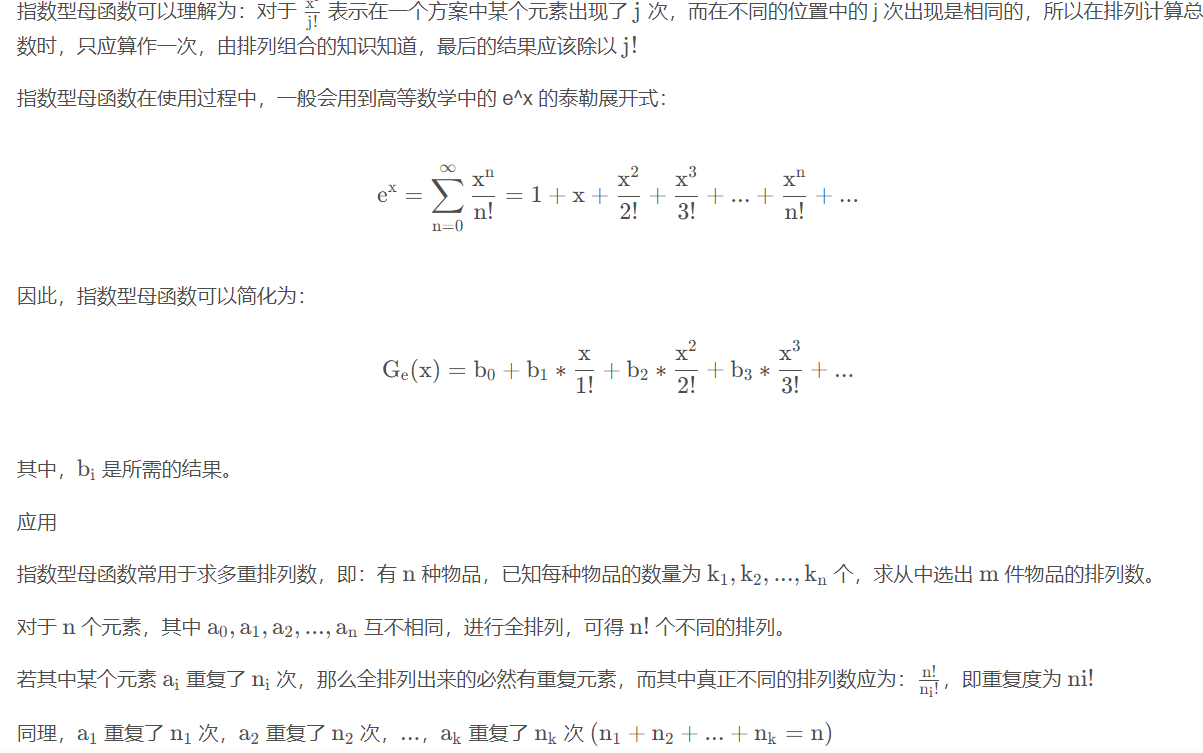
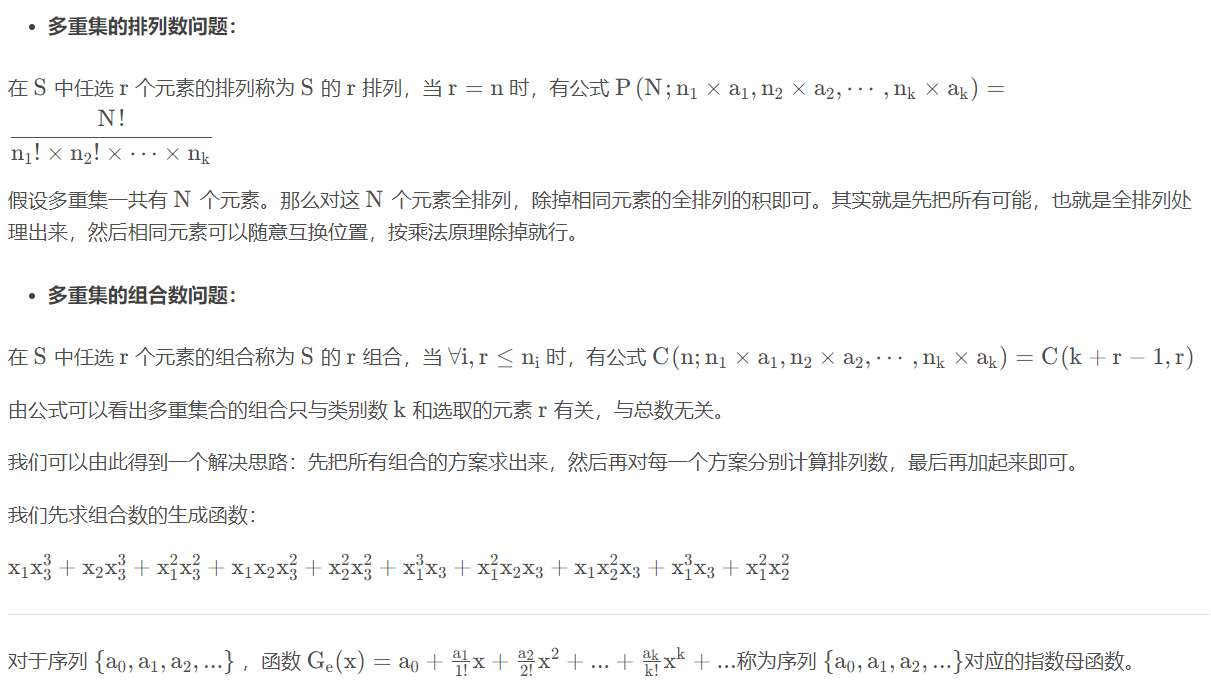
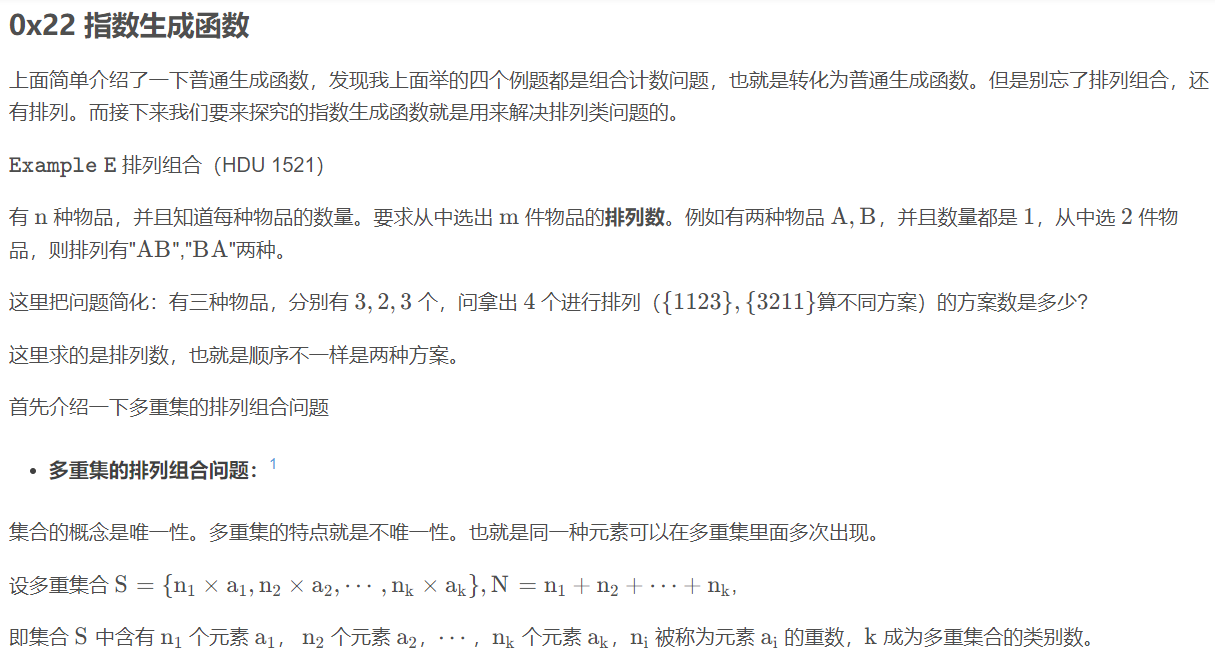
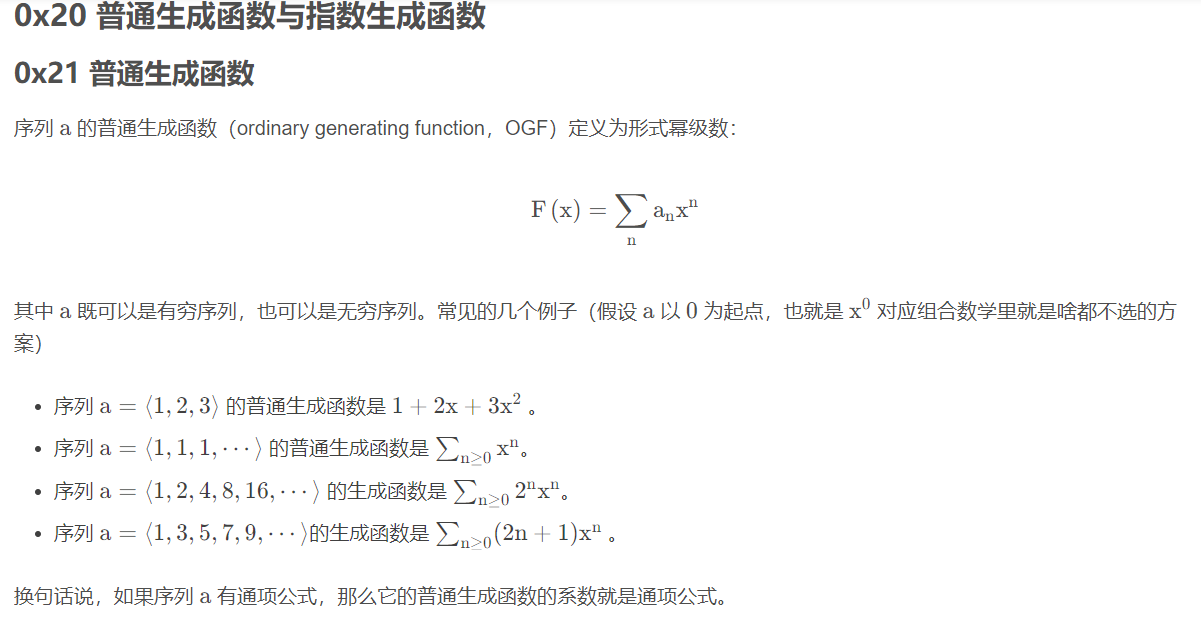
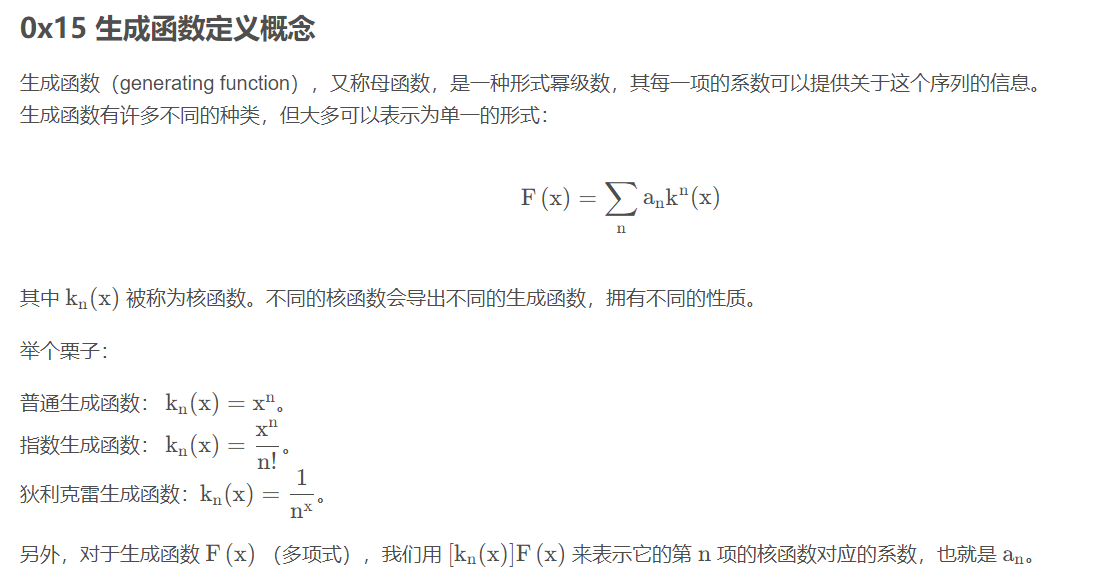
ll n = 0;

for(int i = 0; i < s.size(); ++ i) {

n = (n \* 10 + s[i] - '0') % p;

}

cout << n \* (n + 1) \* (n + 2) / 6 % p;

}

下面这个比较重要，二项式定理：

