**Problem :** [**https://codeforces.com/contest/1523/problem/D**](https://codeforces.com/contest/1523/problem/D)

**Approach :** Gud explanation by errichto:

[**Codeforces Deltix Round Solutions**](https://youtu.be/2S19tjbu_48?t=688)

=> Find answer using SOS DP, but don’t forget to compress.

**Time = O(30\*p\*(2^p + n))**

where p=no of set bits in chosen friend.

p\*n time required for iteration through n friends and checking if any of the ‘p’ bits are SET in them,and p\*2^p time required for SOS DP to also count the subsets.

**CODE :** [**https://ideone.com/hsPI7a**](https://ideone.com/hsPI7a)