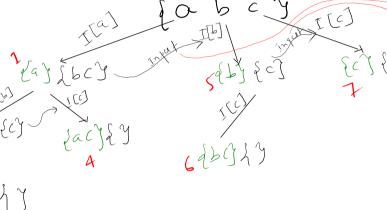
Expansion is based on recursive expansion of exclude-term C(n-1, k) of pascal identity

$$C(n,k) = C(n-1,k-1) + C(n-1,k)$$

 $C(n,k) = C(n-1,k-1) + C(n-2,k-1) + C(n-3,k-1) + ... C(k-1, k-1)$

All terms in RHS represents include terms. Exclude term is getting converted in include-term by

using the input of exclude term.



Since exclude-term is transformed into include-term so the input for next-breadth-step is the input of

We are getting output printed at each recursive invocation of method, and there are 2^n outputs, so 2^n recursive invocation of method. Thus, time-complexity is O(2^n). This is more efficient than Include-Exclude soultion as in Include-Exclude solution all outputs are generated at leaf level.

For loop traverse along the breadth