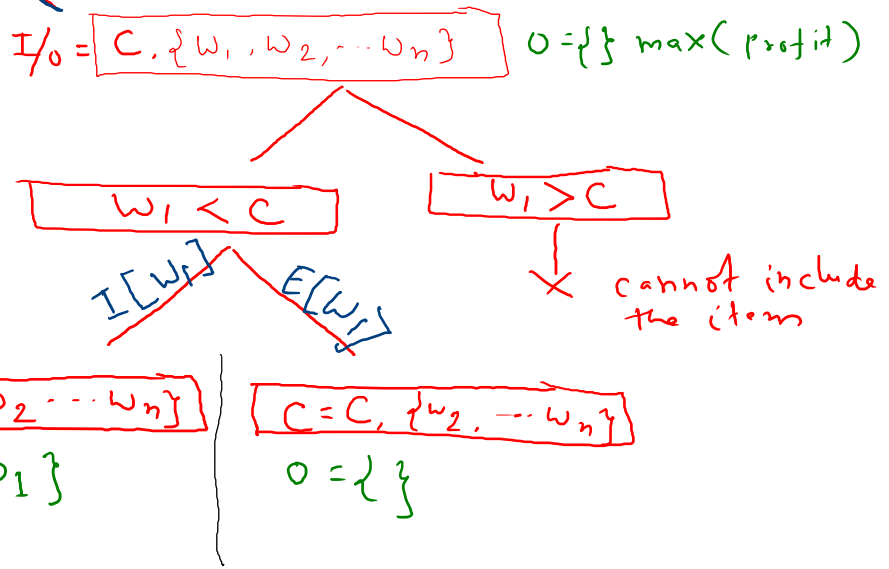
GOAL: Find max profit using pascal include and exclude principle

DOUBLE-COUNTING CHOICE DIAGRAM

$$^{n}C_{k} = {}^{n-1}C_{k-1} + {}^{n-1}C_{k}$$

Include | exclude

will explore whole 2^n



Variables: capacity, and available weights

→ base condition will be on capacity and available weights.

In general, we pick minimum valid input as base condition so here base condition will come when code run time will hit the condition of: ① Zero available capacity and ② no available weights