

Backtracking

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(Ref:Sahni)

Sum of Sub sets

$$M=30 \quad w=\{5,10,12,15\}$$

S = sum of items from 1 to $k-1$

R = sum of items from k to n

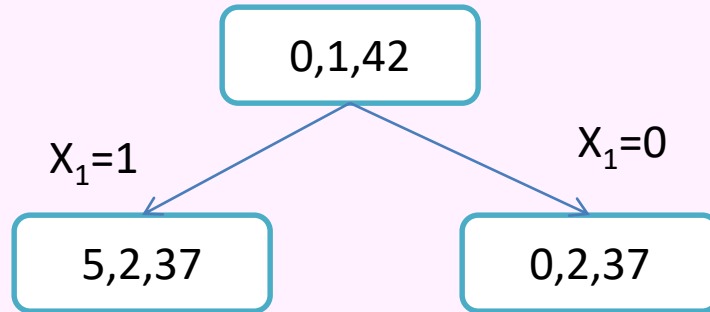
K = next element to be considered

Node representation(s, k, r)

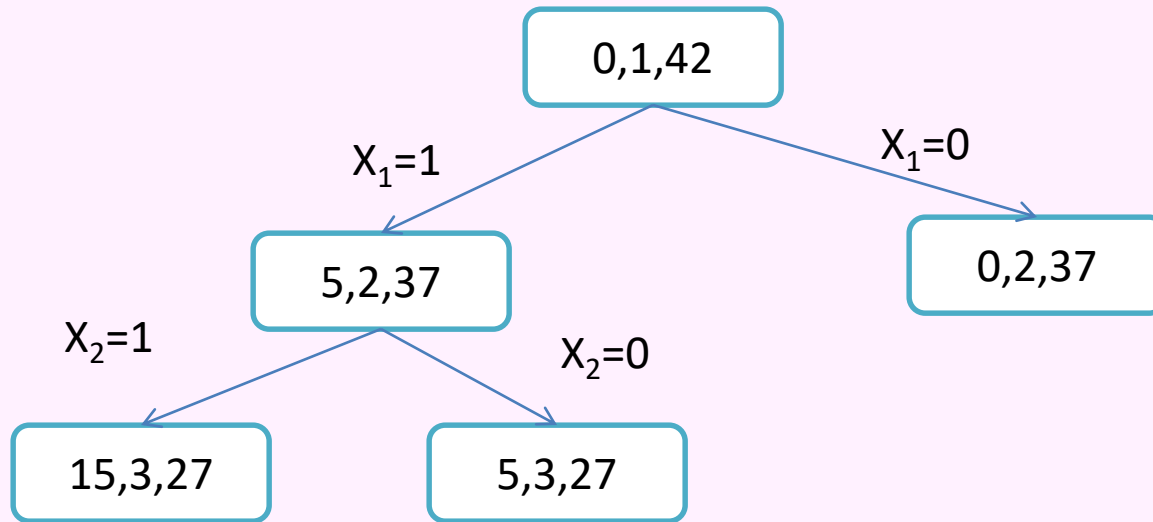
$M=30$ $w=\{5,10,12,15\}$

0,1,42

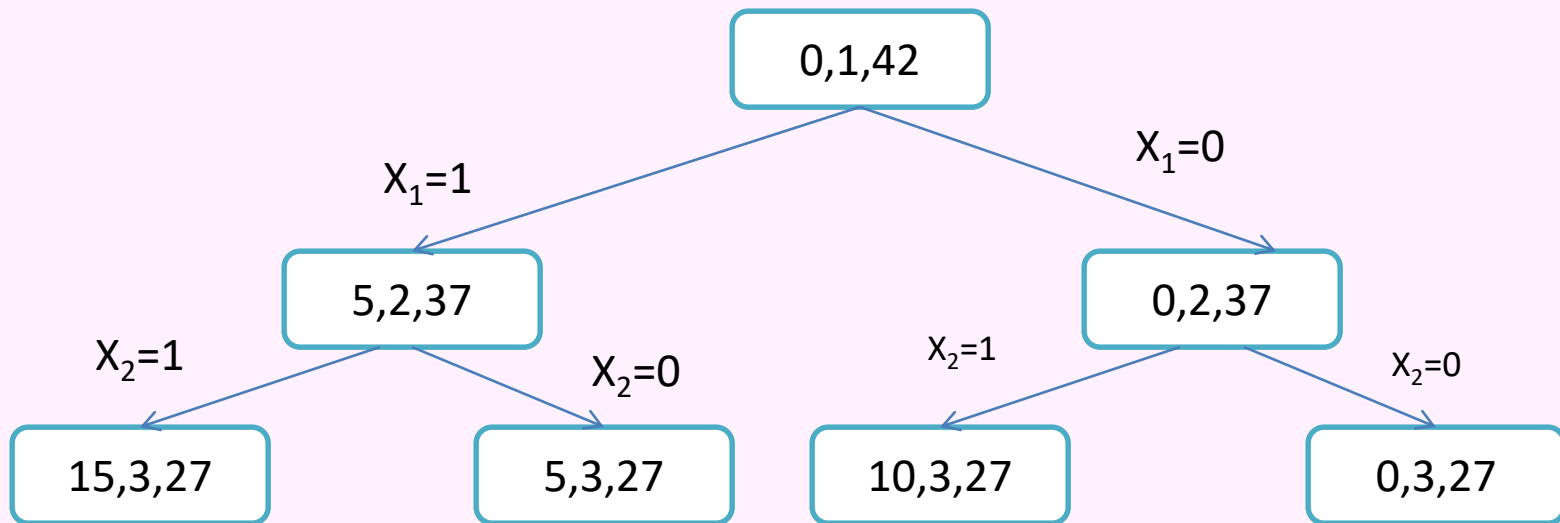
$M=30$ $w=\{5,10,12,15\}$



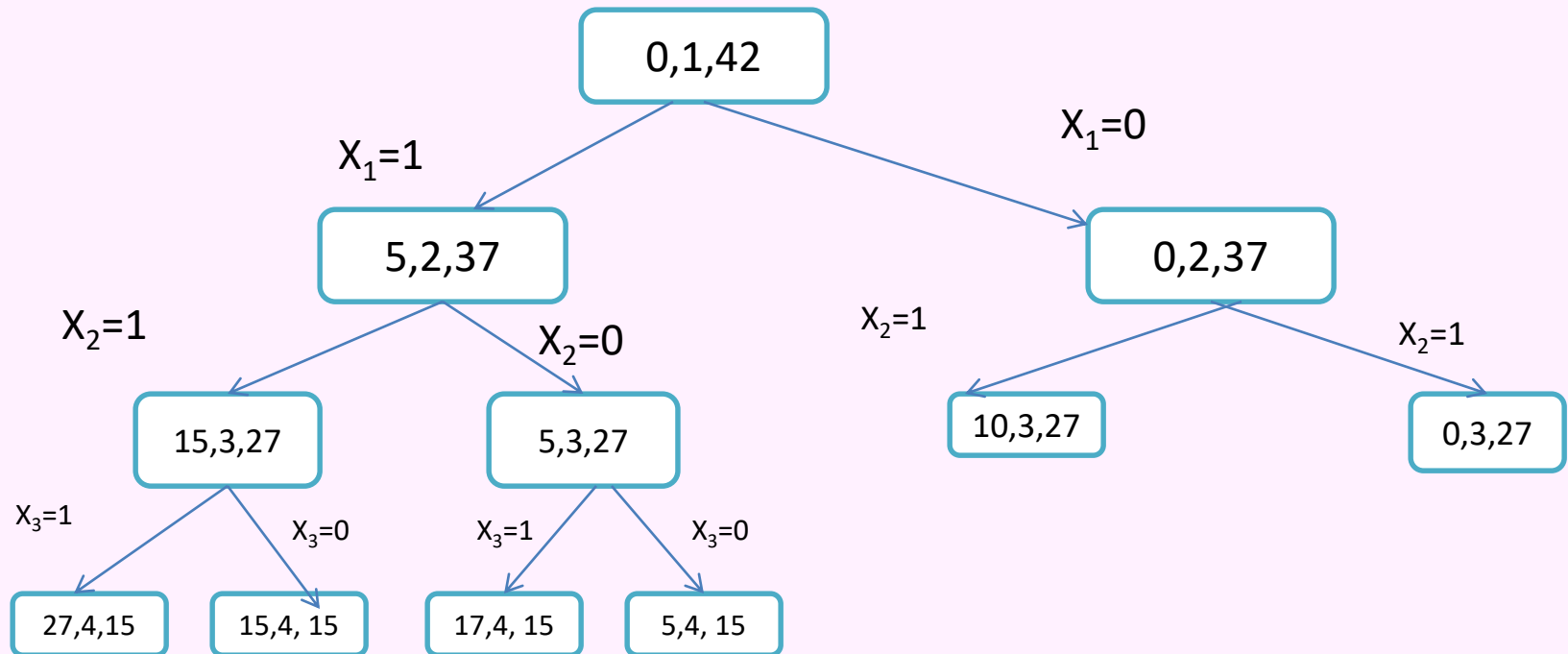
$M=30$ $w=\{5,10,12,15\}$



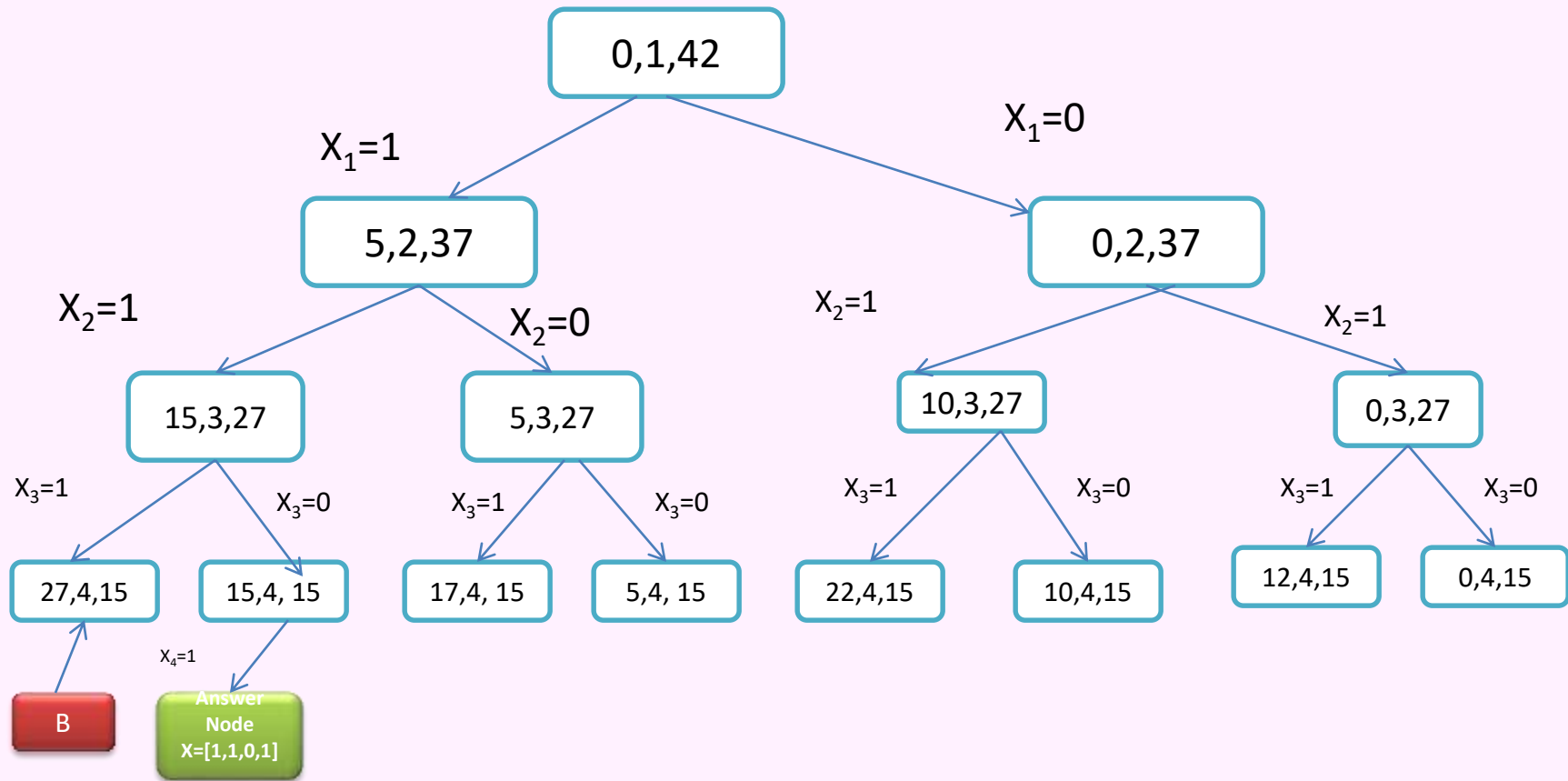
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