ALGORITHM Backtrack(X[1..i])

//Gives a template of a generic backtracking algorithm

//Input: X[1..i] specifies first i promising components of a solution

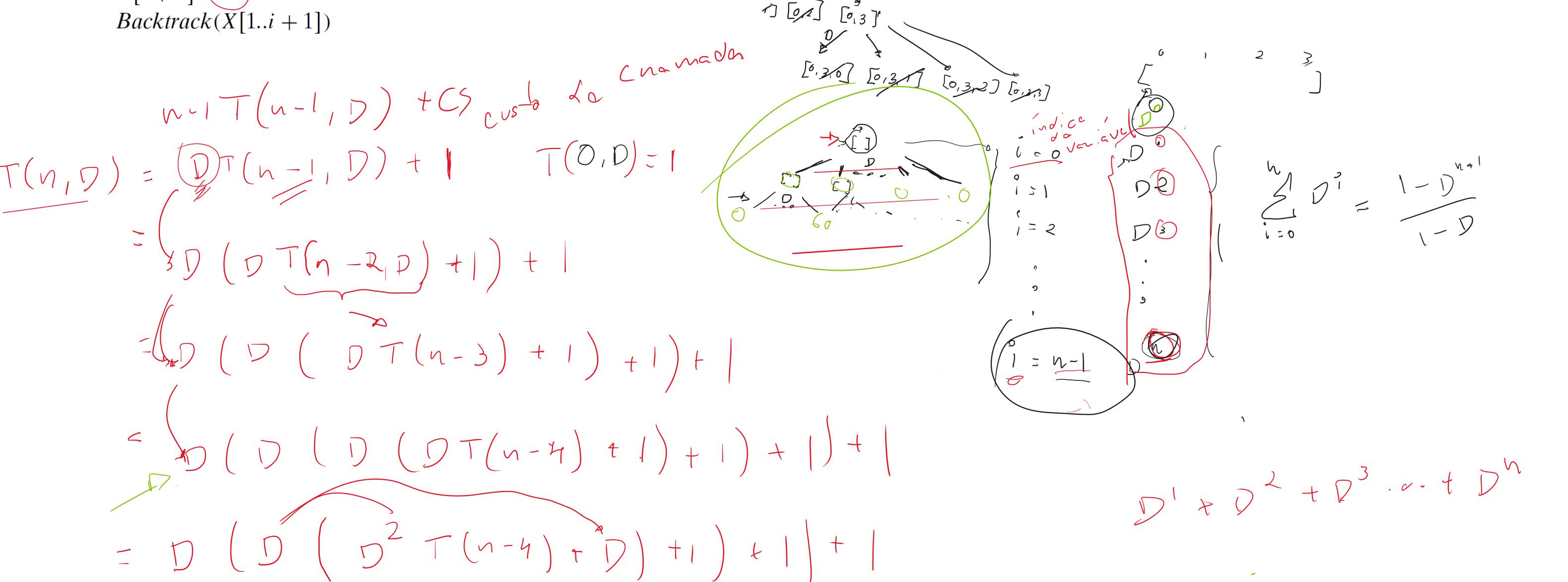
//Qutput: All the tuples representing the problem's solutions

if X[1..i] is a solution write X[1..i]

else #see Problem 9 in this section's exercises

for each element $x \in S_{i+1}$ consistent with X[1..i] and the constraints do

 $X[i+1] \leftarrow x$



 $= D(D^3T(n-4)+D^2+D)+1)+1$

$$= \left(\begin{array}{c} D^{n} T(0) + \sum_{j=0}^{n-1} D^{j} \\ D^{n} + \sum_{j=0}^{n-1} D^{n} + D^{n-1} \end{array} \right)$$

$$= \left(\begin{array}{c} D^{0} + D^{j} + D^{2} & \cdots + D^{n-1} \end{array} \right)$$

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$$= \frac{D^{N}(D+1)}{D-1}$$