Week 5 Exercises

Help Center

Lecture 6

VI.1

Use the standard function scale to directly derive an asymptotic expression for the number of stringsin this following CFG: S = E + U×Z×S + D×Z×S, U = Z + U×U×Z, D = Z + D×D×Z.

VI.2

Give an asymptotic expression for the number of rooted ordered trees for which every node has 0, 2, or 3 children. How many bits are necessary to represent such a tree?

Lecture 7

VII.1

Use the tree-like schema to develop an asymptotic expression for the number of bracketings with N leaves (see Example I.15 on page 69 and Note VII.19 on page 474)

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