Week 4 Exercises

Lecture 5

V.1

Give an asymptotic expression for the number of strings that do not contain the pattern `0000000001`. Do the same for `0101010101`.

V.2

Give asymptotic expressions for the number of objects of size *N* and the number of parts in a random object of size *N* for the following classes: compositions of 1s, 2s, and 3s, triple surjections, and alignments with no singleton cycles.

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