

Davenport—Schinzel Sequences

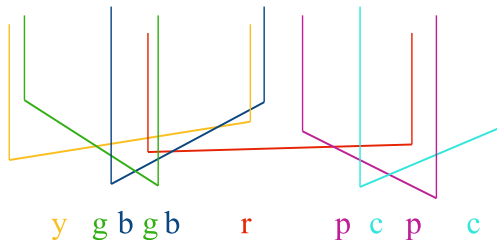
Boris Zolotov, Algo Lunch

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Definition

D—S sequence of order n : no *subsequences* $a \dots b \dots a \dots b \dots$ of length $n + 2$

Motivation: lower envelope of continuous functions that coincide at no more than n points.



For each segment we can also construct the set of functions.

Voronoi diagrams and the beach line

