Factor Oracle for Machine Improvisation

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Preliminaries

Word

A word s is a finite sequence $s = s_1 s_2 \dots s_m$ of length |s| = m on a finite alphabet Σ .

Factor

A word $x \in \Sigma^*$ is a factor of s if and only if s can be written s = uxv with $u, v \in \Sigma^*$. Given integers i, j where $1 \le i \le j \le m$, we denote a factor of s as $s[i...j] = s_i s_{i+1} ... s_j$.

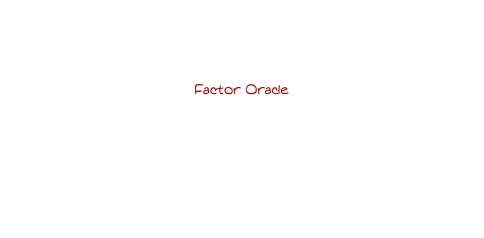
Preliminaries

Prefix

A factor x of s is a prefix of s if s = xu with $u \in \Sigma^*$. The ith prefix of s, denoted $pref_s(i)$, is the prefix s[1 ... i].

Suffix

A factor x of s is a suffix of s if s = ux with $u \in \Sigma^*$. The ith suffix of s, denoted $suff_s(i)$, is the suffix $s[i \dots m]$.



Factor Oracle

Thank you for your attention! ©

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