Mandatory Exercise: Suffix Trees

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1 Supersuffixes Let S and P be strings of lengths n and m, respectively. Both strings are from an alphabet Σ. A *supersuffix* of P is a suffix of P that occurs as a substring of S at least a many times as any other suffix of P. A longest supersuffix is a supersuffix of maximal length. For instance, if $S = \texttt{cocoa}$ and $P = \texttt{oco}$, then both `co` and `o` are supersuffixes and `co` is a longest supersuffix. Give an efficient algorithm to compute a longest supersuffix.