# Project 5: String Matching

The [Aho–Corasick string matching](http://en.wikipedia.org/wiki/Aho%E2%80%93Corasick_string_matching_algorithm) algorithm is a string searching algorithm invented by Alfred V. Aho and Margaret J. Corasick. It is a kind of dictionary-matching algorithm that locates elements of a finite set of strings (the "dictionary") within an input text. It matches all patterns "at once", so the complexity of the algorithm is linear in the length of the patterns plus the length of the searched text plus the number of output matches.

**Problem:** Implement (in Python) the following two algorithms:

* The Aho-Corasick matching algorithm.
* A matching algorithm which searches one by one for the keywords and uses Python’s string.find() method.

On large text files, compare the two programs. Use the length of the text file and the number of keywords as input parameters for your tests.