Starpoint.pdf
/**
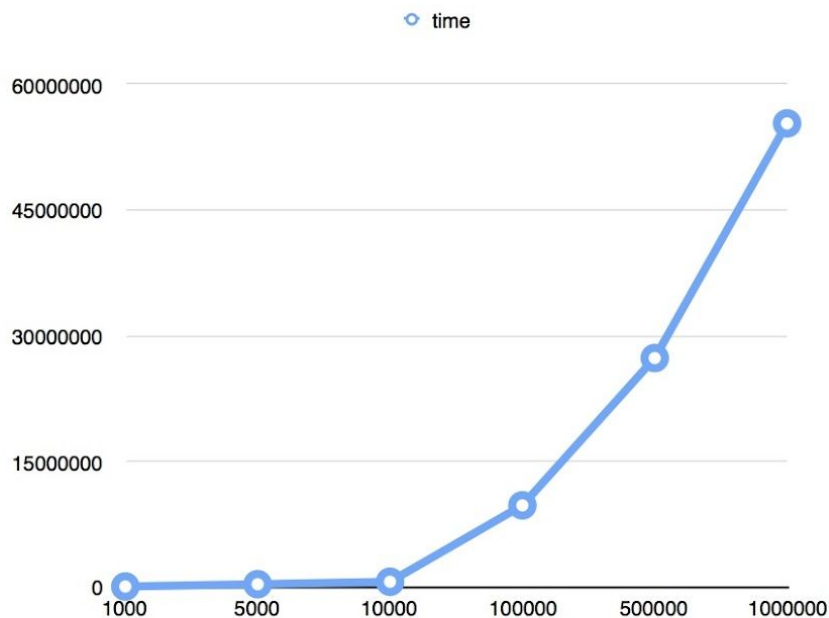 * File name: Starpoint.pdf
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Question a:
The first difference between the Aho–Corasick algorithm and Multiway-trie is the run time of find function. For the Aho-Corasick algorithm, it will take O(N), because it will used the suffix and dict_suffix to get to the node which occurred, thus it will take much less time to traverse and to find the character. For multiway-trie, it will take O(N*logN), because for each character it takes logN steps to traverse the trie to find whether in the trie, thus O(N*logN). Moreover, for multiway-trie, it will start the traverse and find again at each character, but for the Aho-Corasick algorithm it will only traverse single time, as it constantly take a character and find in the tree using links, such as suffix and dict_suffix.

Question b:

The scale is f(N)

Question c:
It is an automaton, for a given line of strings, it can used to detect the components of the line, and thus, in real time it is similar as compilation system. Thus it can be used in compiler.