

Application of Boyer Moore text pattern searching algorithm

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Introduction

This algorithm takes the backward approach by aligning the pattern string P with text string T and thereafter, comparing the characters from right to left, starting with the rightmost character. It works on the principle that if a mismatched character is found, then there is no use in matching the other characters in the two strings.

So there are two approaches we use in this algorithm:

1. Bad Character Heuristics
2. Good Suffix Heuristics

Application:

Pattern searching is an important problem in computer science. When we do search for a string in browser, word file or database, pattern searching algorithm are used to show the search results.

For example:

1. When we type some letters in YouTube search box then YouTube starts showing us some suggestions this is with the help of this algorithm.
2. In the Notepad/Word when we type some wrong word it gets highlighted with red line this due this pattern searching algorithm.