String Matching Assignment

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Algorithms selection

Boyer-Moore-Horspool algorithm is the algorithm used in the solution. We can use Naïve string matching also. But Boyer-Moore-Horspool algorithm is more efficient than the Naïve algorithm. KMP or Rabin-Karp Algorithm gives the same or worst efficiency than the naïve algorithm.

How this works

Boyer-Moore-Horspool algorithm,

1. uses the bad-character heuristics of the Boyer-Moore Algorithm to determine the shift distance
2. The pattern will be shifted until the rightmost character of string in the matches
   i.   the exact character in pattern or
   ii. the wild card

   if both the character and wildcard exist in the pattern, take the minimal distance from them.