
First Assignment

- There is a lot string matching algorithm to find pattern in particular text each algorithm have time complexity to find pattern in text .
- In this paper we will talk about present Bidirectional exact pattern matching algorithm .
- Bidirectional (BD) exact pattern matching (EPM) introduced anew idea to compare pattern with select text by using two pointer (right and left) simultaneously.
- In preprocessing phase Bidirectional EPM algorithm improved the shift decision by comparing rightmost and mismatched character of Partial Text Window (PTW) to the left of pattern at same shift length.
- **BD** solve the problem of time complexity which take **$O(m)$** to find the pattern in Text and searching phase takes **$O(MN/2)$** SO **BD** effective than the number of existing algorithms in many cases .
- This algorithm focus to reduce the number of character comparisons and processing time.
- The purpose of **BD** string matching algorithm is to find all occurrences of pattern in the text string and we will compare between **BD** and other algorithm .

