A Novel String Matching Algorithm and Comparison with KMP Algorithm

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Abstract

In today’s world, we need fast algorithm with minimum errors for solving the problems. Pattern matching method is a real time problem. There exist different types of data in web application problems, for example, text files, image files, audio files and video files searching. For searching different types of data search engine is required and every search algorithm are used by every search engine for handling different types of data. This paper provides a modified version of KMP algorithm for text matching. This algorithm is implemented in C language and has been checked with arbitrary input arrangement of length 10,100,1000,5000,10000. The results reflect that the performance of modified KMP algorithms is better than that of KMP algorithm.

References


Index Terms

Computer Science

Algorithms

Keywords

String Matching; KMP; Algorithms; Data Structures.