ANALYSIS OF COMPARATIVE PERFORMANCE BETWEEN ZHU-TAKAOKA AND KARP-RABIN ALGORITHMS ON WORDS SEARCHING IN RUMAH BACA BUKU SUNDA

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Commonly, in the rumah baca buku sunda, readers look for a book which are wanted to be read according to its titles, but sometimes, they seek old published book and do not remember its title. Usually, they only remember names of the characters in that book or phrases which often appear to which both of them do not exist in the catalog. That matter causes them hard to find the desired book.

For handling the problem, there must be software of word searchING which can finish the problem properly and correctly. Therefore, the software can help the readers to find the desirable book. There are about 35 algorithms of word search which can be used in the software, both algorithms which were created in the beginning and algorithms which are developed form the existed algorithms. Two of them are Karp-Rabin and Zhu-Takaoka algorithms.

By doing analysis of comparative performance between Karp-Rabin and Zhu-Takaoka algorithms, it will be known a process and a performance in speed and accuracy from both algorithms. Furthermore, algorithms which are more efficient can be used on software of string matching.

Keyword: Algorithms, Zhu-Takaoka, Karp-Rabin, string matching