Pattern matching is one of the most important research

subjects that have been studied in computer science. Over

the years, pattern matching algorithms have been extensively applied in various computer applications, for example, in retrieval of information, information security,

and searching nucleotide or amino acid sequence patterns

in biological sequence databases. Pattern matching problem can be defined as finding one or more usually all the

occurrence of a given pattern ( 01 1 m Pppp− = … ) of

length min a text ( 01 1 n Tttt− = … ) of length n, which

are built over a finite alphabet set Σof size σ.

The aim of a good algorithm is to minimize the work

done during each attempt and to maximize the length of

the shifts. Hence, some well-known algorithms have been

presented to get a better shift value, for example, Boyer-