
Algorithm 1 Check if a word matches a motif, from a suffix automaton

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1: function FINDMOTIFINSEQUENCE(W: Array(n), A:  $\langle S, s_0, T, \Sigma, f \rangle$ )
2:   Returns Boolean valued to true if the motif is in the sequence
3:    $s \leftarrow s_0$ 
4:    $i \leftarrow 0$ 
5:   while  $i < n$  and  $\exists f(s, W[i])$  do
6:      $s \leftarrow f(s, W[i])$ 
7:      $i++$ 
8:   end while
9:   if  $i=n$  then
10:    return true
11:  end if
12:  return false
13: end function
```
