1.

String: a a b a a b b a a b a a

LPS: 0 1 0 1 2 3 0 1 2 3 4 5

Pi = [0, 1, 0, 1, 2, 3, 0, 1, 2, 3, 4, 5]

https://www.geeksforgeeks.org/kmp-algorithm-for-pattern-searching/