



v = a node in keyword tree K

$L(v)$ = concatenation of chars from root to v . (label of v)

$lp(v)$ = length of the longest proper suffix of string $L(v)$ that is also prefix of some pattern in P . Let this substring be α .

lemma: there is a unique node in the keyword tree that is labeled by string α . Let this node be n_v . Note that n_v can be the root

the ordered pair (v, n_v) is called a failure link