

KMP

AHO-CORASICK

T: A A B A A C A T D A A B A A B A

P: A A B A

$O(|T| |P|)$

$S \in \Sigma^*$

$\text{Pref}(S)$  = cel mai lung prefix propriu care este si sufix al lui  $S$

$\text{Pref}(A A B A A) = A A$

$A A A A = 3$

$\pi(i) = \text{len}(\text{Pref}(T[1..i]))$

$\pi(5) = \text{Pref}(T[1..5])$

$\pi(1) = 0$

	0	1	0	1	2	0	1	
T:	0	1	0	1	2	0	1	2
T:	A	A	B	A	A	C	A	A

$\pi(1) = 0$

for (int i = 2; i ≤ K; i++)

int j = π[i-1]

while (S[i] != S[j]) j = π[j]

if



$P_1: A$ 
 $P_6: CA$ 
 $P_2: AB$ 
 $P_3: BC$ 
 $P_4: BCA$ 
 $P_5: C$ 
 $T: AABCACAB$ 
