
Prática 10



32.2-1

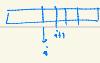
- Hash function:

$$h(d_1, d_2) = 10 \times d_1 + d_2 \bmod 9$$

T: 

$$h_{10} = (d_1 - T[i] \times 10) \times 10 + T[i+2]$$

↳ hash da palavra no posição $i+1$



$$\times \begin{array}{r} 3 \\ 3 \\ 1 \\ 4 \\ 1 \\ 5 \\ 9 \\ 2 \\ 6 \\ 5 \\ 3 \\ 5 \\ 8 \\ 9 \\ 7 \\ 9 \\ 3 \end{array} \quad h(26) = 4$$

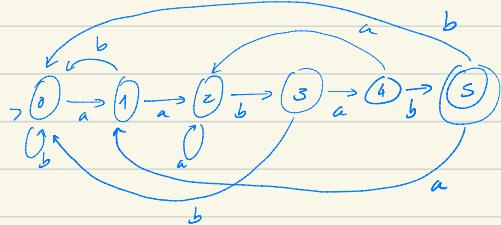
32.3-1

$$\times P = aabbab$$

$$\star T = aaababaabbaababaab$$

$$\delta(q, a) = \underbrace{\delta(P_q, a)}$$

↳ $\delta(w)$: tamanho do maior prefíxo de w que é sufixo de w



$$\delta^*(q, a \cdot w) = \delta^*(\delta(q, a), w)$$

$$T = aaababaabbaababaab$$

0 1 2 3 4 5 1 2 3 4 2 3 4 5 1 2 3

32.3-1

$P = aabab$

$T = aaababaabaaababaab$

$P = aabab$
 $\pi \quad 01010$

① $\overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} ab$
 $\overset{\downarrow \uparrow \downarrow \uparrow}{aabab} \quad \overset{\downarrow \uparrow \downarrow \uparrow}{aabab}$
 $01010 \quad 01010$

② $\overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} ab$
 $\overset{\downarrow \uparrow \downarrow \uparrow}{aabab} \quad \overset{\downarrow \uparrow \downarrow \uparrow}{aabab}$
 $01010 \quad 01010$

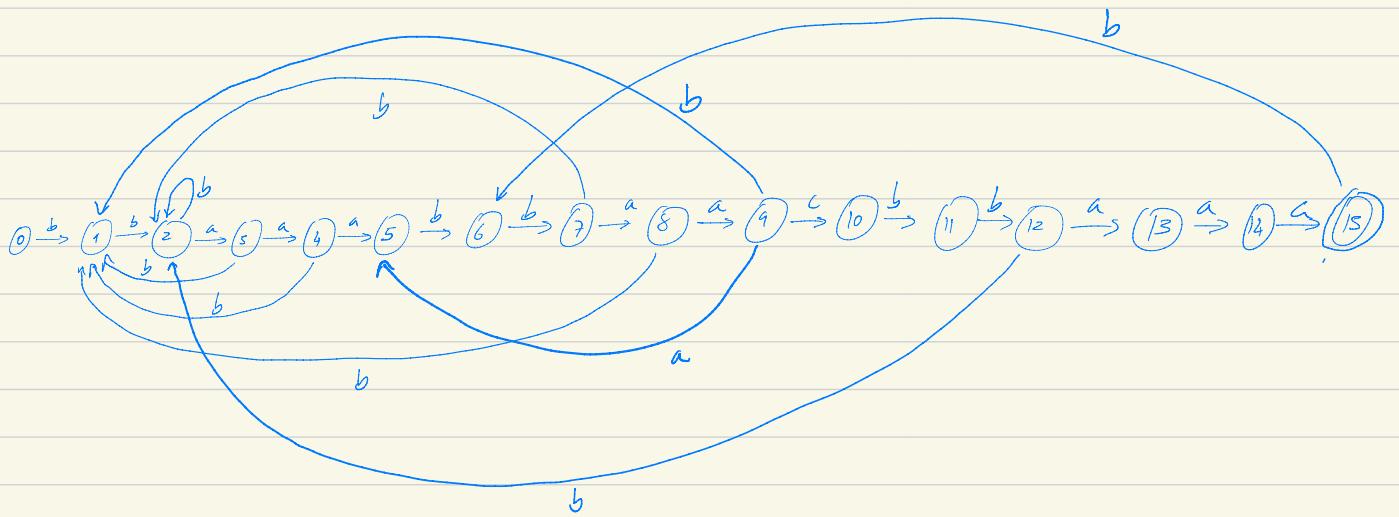
③ $\overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} \overset{\downarrow \uparrow \downarrow \uparrow}{aababa} ab$
 $\overset{\downarrow \uparrow \downarrow \uparrow}{aabab}$
 01010

32.4-1

$P = ababbabbabbabbabb$
0 0 1 2 0 1 2 0 1 2 3 4 5 6 7 8

$T_2 = 08/09 \text{ III.1}$

bb aa ab bb aa cc bb aaa



RZ 08/09 - III.1

$$\rho = aaabb aabb aaab aabb$$

$$\rho = aaabb aabb aaaa b aabb$$

0 1 2 0 0 1 2 0 0 1 2 3 4 1 2 0 0

$$\pi[i] = \max \{ j \mid j < i \text{ and } p_j \sqsupseteq p_i \}$$

TZ 08/09 III.2

$$\begin{array}{ccccccccc} 1 & 2 & 3 & 4 & 5 & & n \\ \overline{ababb} & \overline{abbb} & \overline{abbbb} & \overline{abbbbb} & \dots & a & b^n \\ 00 & \underline{120} & \underline{1200} & \underline{12000} & \underline{120000} & & \\ \hline 2 & 1 & 2 & 3 & 4 & & \end{array}$$

$$\begin{aligned} \sum_{i=1}^n (i-1) + z &= \frac{n \times (n+1)}{2} - n + z \\ &= \frac{n^2}{2} + \frac{n}{2} - n + z \\ &= \frac{n^2 - n}{2} + z \quad (\textcircled{B}) \\ &= z + \frac{n^2 - n}{2} \end{aligned}$$

RZ 08/09 III.2

$$ab a b^2 a b^3 \dots a b^{n-1} a b^n$$

