

match-
ing
statis-
tics
PHONI

?
RLPBWT

φ^{-1}

k

\hat{a}_k

X

$N \times$

M

k

pre-

fix

ar-

\tilde{a}_y

a_k

α_k

$\varphi_k(p) = \{ n \mid \alpha_k[p] = 0a_k[\alpha_k[p]-1], \forall p \in \{0, M-1\}$

$\varphi_k^{-1}(p) = \{ n \mid \alpha_k[p] = M-1a_k[\alpha_k[p]+1], \forall p \in \{0, M-1\}$

$a_k[j] =$

p

$\varphi_k(p) = \{ n \mid j = 0a_k[j-1], \forall p \in \{0, M-1\}$

$\varphi_k^{-1}(p) = \{ n \mid j = M-1a_k[j+1], \forall p \in \{0, M-1\}$

VER-

FI-

CARE

DEFINIZIONE

IN

QUANTO

“NUOVA”

??

$a_6 = [14, 15, 0, 9, 10, 16, 8, 11, 12, 13, 18, 19, 1, 2, 3, 17, 4, 5, 6, 7]$

$\alpha_6 = [2, 12, 13, 14, 16, 17, 18, 19, 6, 3, 4, 7, 8, 9, 0, 1, 5, 15, 10, 11]$

$p =$

3

$\varphi(3) = a_6[\alpha_6[3]-1] = a_6[14-1] = a_6[13] = 2$

$\varphi^{-1}(3) = a_6[\alpha_6[3]+1] = a_6[14+1] = a_6[15] = 17$

$MS[i].row =$

p

$MS[i].len =$

p

a_i

q

$LCE_k(x_p, x_q) \geq$

l

x_q

l

??

lcebounded

LCE

k, row, len

haplos \leftarrow

\square

checkdown \leftarrow

\top , checkup \leftarrow

\top

checkdown

downrow \leftarrow

$\varphi^{-1}(row, k)$

lcebounded($k, row, down_{row}, len$)

push(haplos, downrow)

row \leftarrow

downrow

checkdown \leftarrow

\downarrow

updown

uprow \leftarrow

$\varphi(row, k)$

lcebounded(k, row, up_{row}, len)

push(haplos, uprow)

row \leftarrow

uprow

checkup \leftarrow

\downarrow

re-

turn

haplos

k

φ^{-1}

pre-

fix

ar-