?
Positional Burrows–Wheeler Transform
trasformata di Burrows–Wheeler posizionale
aplotipo
??
?
genotipo
X
M
x_i
$i = 0, \ldots, M-1$
N
$k = 0, \ldots, N-1$
X
$\Sigma = \{0, 1\}$
$0 \prec 1$
$x_i[k] = \{0, 1\}$

(1)

x_i
$x_i[k_1, k_2)$
x_i
k_1
k_2-1
x_i
x_j
k_1
k_2-1

$$x_i[k_1, k_2) = x_j[k_1, k_2)$$

(2)

x_i
x_j

$$(k_1 = 0 \vee x_i[k_1-1] \neq x_j[k_1-1]) \wedge (k_2 = N \vee x_i[k_2] \neq x_j[k_2])$$

(3)

z
X
$\tilde{x}_i \in X$
k_1
k_2-1
$\tilde{x}_j$
$[k_1, k_2)$
$\tilde{x}$
k_1
k_2-1
X
k
$k-1$
k
k
k
$k+1$
i
X
k
prefix array
a_k
$\{0, \ldots, M-1\}$
$a_k[i] = j$
x_j
i
X
k
$a_k[i] = m$
$m < M$
x_m
X
i
k
X

$$y_i^k[j] = x_{a_k[i]}[j]$$