

The Shift-And formula $R^0 = ((R_{i-1}^0 \gg 1) \vee 10^{m-1}) \& \Sigma(t_i)$

Example:

Text = aabaacaabacab

pattern = aabac

when $i=2$

$\Sigma(a)$	11010
$\Sigma(b)$	00100
$\Sigma(c)$	00001
*	00000

1 2 3 4 5 6 7 8 9 10 11 12 13

a a b a a c a a b a c a b

1 1 1 1 1 1 1 1 1 1 1 1 1

1 a 0 1 1

2 a 0 0 1

3 b 0 0 0

4 a 0 0 0

5 c 0 0 0

11000 $(R_1^0 \gg 1) \vee 10^{m-1}$

$\& \ 11010 \ \Sigma(a)$

$\hline R_2^0 \ 11000$

1	2	3	4	5	6	7	8	9	...			
a	a	b	a	a	c	a	a	b	a	c	a	b

$j=1$

a

$R^0(2,1) = 1$

$j=2$

a a

$R^0(2,2) = 1$

$j=3$

a a b

$R^0(2,3) = 0$

$j=4$

a a b a

$R^0(2,4) = 0$

$j=5$

a a b a c

$R^0(2,5) = 0$

$R_2^0 \uparrow$