

00	p :	0	1	2	3	4	5	6	7	8	9	10	11	12	13
01	$x[p]$:	2	1	3	1	3	1	2	1	3	1	3	1	2	1
02	$sa[p]$:	13	11	5	9	3	7	1	12	6	0	10	4	8	2
03	$lcp[p]$:	0	1	3	1	5	3	7	0	2	8	0	4	2	6

04 Compute $\text{fp}(0, p)$ for $p \in [0, n)$:

05 $\text{fp}(0,0) = \text{fp}(0,-1) \cdot 101 + x[0] \bmod 197 = 2,$

06 $\text{fp}(0,1) = \text{fp}(0,0) \cdot 101 + x[1] \bmod 197 = 6,$

07 $\text{fp}(0,2) = \text{fp}(0,1) \cdot 101 + x[2] \bmod 197 = 18,$

08

09 fp(0,p): 2 6 18 46 118 99 151 83 112 84 16 41 6 16

10 For $\text{suf}(\text{sa}[0])$ and $\text{suf}(\text{sa}[1])$:

$$\begin{aligned} 11 \quad \text{fp}(\text{sa}[1], \text{sa}[1] + \text{lcp}[1] - 1) &= fp(11) - fp(10) \cdot 101^1 \bmod 197 \\ &= 1 \end{aligned}$$

$$\begin{aligned} 12 \quad \text{fp}(\text{sa}[0], \text{sa}[0] + \text{lcp}[1] - 1) &= \text{fp}(13) - \text{fp}(12) \cdot 101^1 \bmod 197 \\ &= 1 \end{aligned}$$

13 For $\text{suf}(\text{sa}[1])$ and $\text{suf}(\text{sa}[2])$:

$$\begin{aligned} 14 \quad \text{fp}(\text{sa}[2], \text{sa}[2] + \text{lcp}[2] - 1) &= \text{fp}(7) - \text{fp}(4) \cdot 101^3 \bmod 197 \\ &= 160 \end{aligned}$$

$$\begin{aligned} 15 \quad \text{fp}(\text{sa}[1], \text{sa}[1] + \text{lcp}[2] - 1) &= \text{fp}(13) - \text{fp}(10) \cdot 101^3 \bmod 197 \\ &= 160 \end{aligned}$$

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