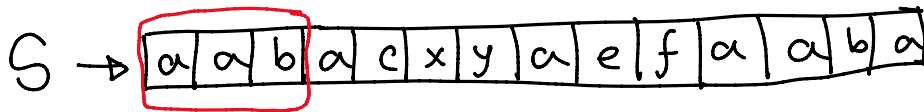


#1: S, t

getHash(L, R)



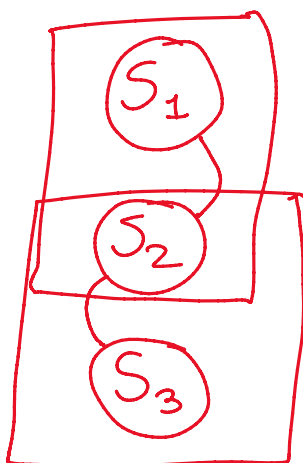
$$H_t = \text{getHash}(i, i + L_t - 1)$$

$$0, 0 + 3 - 1 \rightarrow 0, 2 \quad 2, 4$$

$$1, 3$$

generate prefix hash table

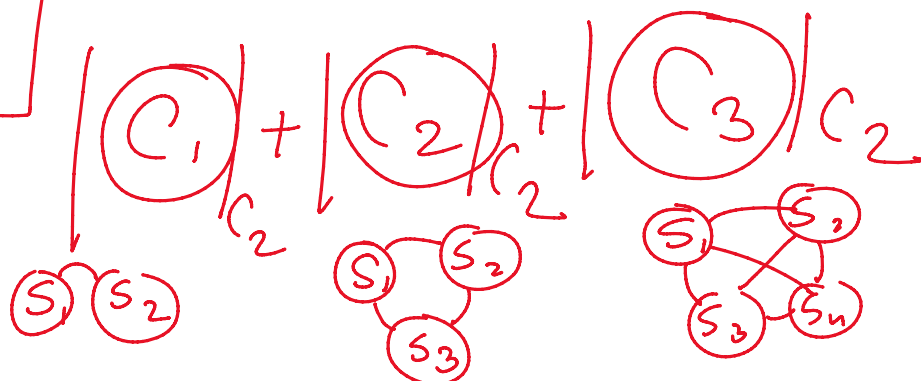
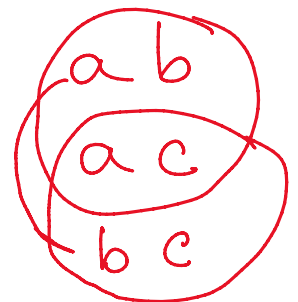
for($i = 0; i + L_t < L_s; i++$)
 $\text{cnt} += (H_t == \text{getHash}(i, i + L_t - 1));$



$S_1, S_2 \rightarrow \text{Similar}$

$S_2, S_3 \rightarrow \text{Similar}$

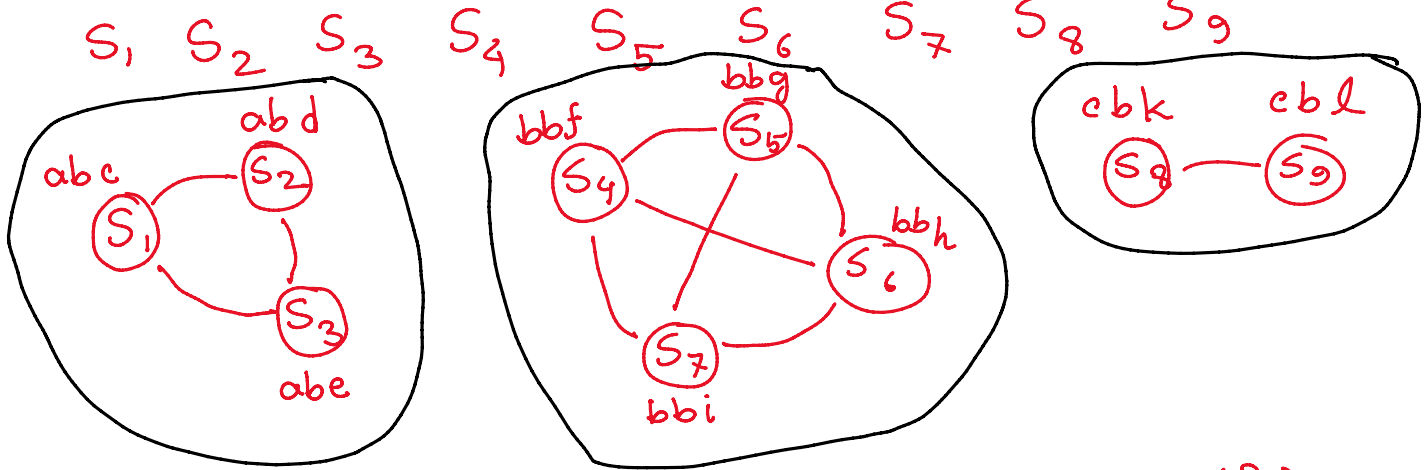
$S_1, S_3 \rightarrow ?$



(5) (2)



$1 \leq N, M \leq 10$



$$\binom{3}{2} = 3$$

+

$$\binom{4}{2} = 6$$

+

$$\binom{2}{2} = 1$$

= 10

$\boxed{a b c d e f g} \rightarrow 25 \times M \sim 175 \text{ str} + 1 \text{ str} \quad 1 \leq N, M \leq 10^6$

New $\rightarrow a b c d d f g \rightarrow 25 \times M \sim 175 \text{ str}$
 $\rightarrow a b c d e f g$

$\text{cnt} += f[a b c d e f]$

1) $a b c d e f g \rightarrow 31$

2) $a b c d d f g \rightarrow 58$

3) $a b c d d d g \rightarrow 03$

4) $z x c d e f g \rightarrow 98$

5) $a x c d e f g \rightarrow 25M$

$z x c d e f g$
 $a b c d e f g$

$\text{cnt} = 4$

1 175

98, 31

1 2 3 4 5 6

1 2 4 0 0 0

1 2 4 4 5 6

$O(1)$

$O(1)$

z x c d e f g
a b c d e f g

$O(1)$
 $O(1)$

$$O(25MN)$$

$$2.5 \times 10^7$$

$$\begin{array}{r} 124000 \\ (+) \quad 456 \\ \hline 124456 \end{array}$$

$$\begin{array}{r} 123456 \\ - 400 \\ \hline \end{array}$$

$$\begin{array}{r} 123456 \\ 123000 \\ \hline 123456 \\ 4 \end{array}$$

$$4 \times 10^2$$

$$124456$$

$$5-2=3$$

$$(n-1-id \times No)$$

10

$$\begin{array}{r} 123456 \\ 123000 \\ \hline 120456 \\ (+) 4000 \\ \hline 124456 \end{array}$$

$$\frac{NM}{10^9}$$

$$\frac{NM}{10^{19}}$$

$$\frac{10^6}{10^9}$$

$$\frac{10^6}{10^{19}}$$

$$= 10^{-3} = 0.001$$

(a, b)
(b, a)

cnt++

cnt++

$$\frac{cnt}{2}$$