

$$T = \begin{matrix} & 10 & & 5 & & 2 & & 4 & & 8 & & 1 \\ & \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} & & \text{---} \\ T = & y & a & b & b & a & d & a & b & b & a & d & p & \$ & \$ & \$ \\ \text{Radix Sort } O(n) & 1 & 2 & 3 & 4 & 5 & 6 & 7 & 8 & 9 & 10 & 11 & 12 & 13 & 14 & 15 \end{matrix}$$

1) 13) \$ \$ \$	Rank: 1
2) abb	2
7) a bb	2
8) ada	3
10) adp	4
4) bad	5
9) bad	5
3) bba	6
8) bba	6
6) dab	7
11) dp\$	8
12) p\$ \$	9
1) yab	10

$SA = (T)_{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13}$

$T' = [10, 5, 2, 4, 1, 2, 3, 6, 8]$

$SA(T')$

$SA_{1,2} = [3, 2, 7, 5, 10, 4, 8, 1, 11, 1]$

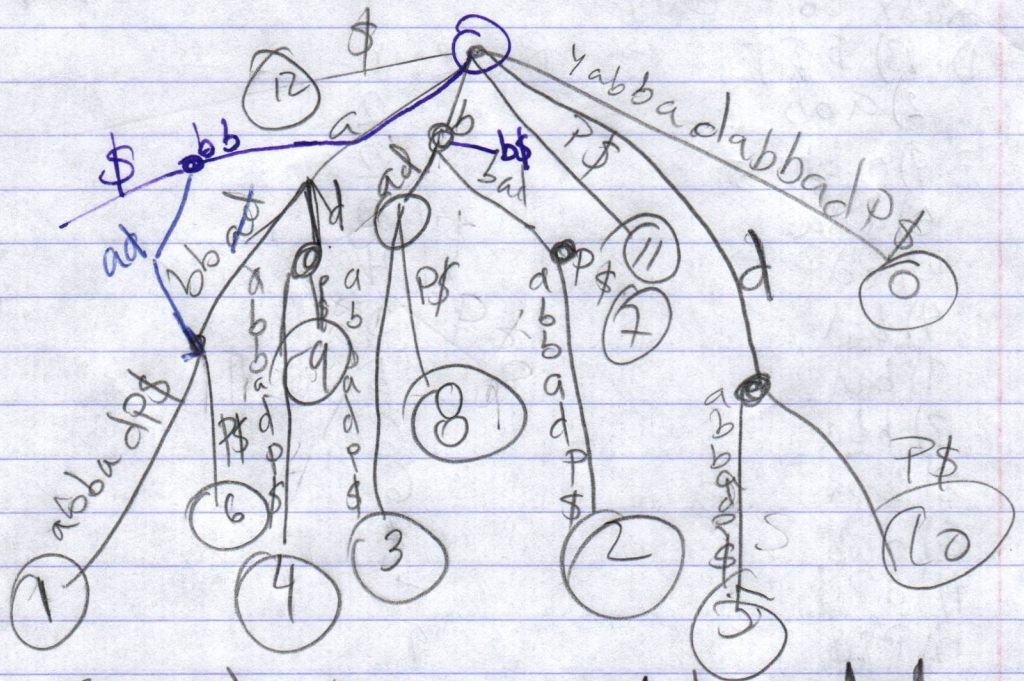
2) $O(m \log n)$ where $n = |P|$ $n = 11$

$T[8] \leq P \rightarrow T[4] \leq P \rightarrow T[6] \leq P \rightarrow T[7] \leq P$

3) $O(m + \log n)$

$LCP[] = [3, 1, 2, 0, 1, 0, 0]$

4) $T = yabbada\ bbadp\$$ $P = abb$



$O(m+n)$ where $m = |P|$ & $n = |T|$

5) $n \times (3-1) + 1 =$ internal node ≥ 3 \geq
 $2n+1$ leaves $\rightarrow (2n+1)-1 = \text{edges}$