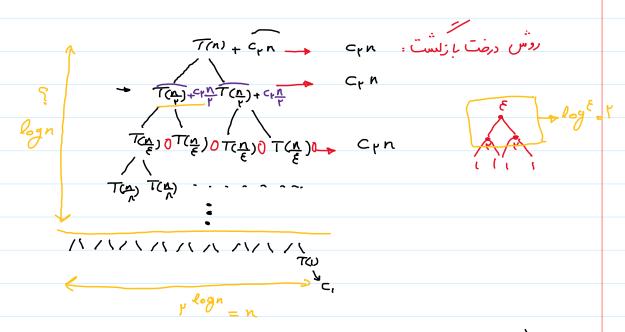
$$T(1) = O(1) \qquad T(n) = YT(\frac{n}{Y}) + O(n)$$

$$\sqrt{G(n)}$$

$$T(1) \leqslant C_1 \qquad T(n) \leqslant \Upsilon T(\frac{n}{\Upsilon}) + C_{\Upsilon} N$$



$$T(1)=C_{1} \qquad T(n)=\text{MT}(\frac{n}{\epsilon})+C_{1}n^{2} \qquad (T_{1})^{2}$$

$$T(n) = \text{MT}(\frac{n}{\epsilon})+C_{1}n^{2} \qquad (T_{1})^{2}$$

- ( " ) Crn  $T(n) = C_{i}n^{\log \frac{\pi}{\epsilon}} + C_{i}n^{\ell} \left(1 + \frac{\pi}{\epsilon} + \left(\frac{\pi}{\epsilon}\right) + \dots + \left(\frac{\pi}{\epsilon}\right)^{\log \epsilon}\right)$ صتى أنرى مه مى وب ازهم مدارات ي سر.  $= O(n^t) \rightarrow O(n^t)$  $T(n) = \Delta T(\frac{n}{r}) + C_{r}n^{r}$  (  $W_{r}$ ) TIECI + Crn  $c_{r} \frac{n}{\epsilon}$ + B Crn + Crn + (B) Crn CP N TCA TCA ....  $+ \left(\frac{\Delta}{\epsilon}\right)^{r} C_{r} n^{r}$ Slogi - nlogis  $T(n) = C_{\ell} \times n + C_{r} \times n$ 

$$T(n) = aT(\frac{n}{b}) + f(n)$$
  $T(1) = O(1)$  : con mes

$$T(n) = \Theta(n^{\log n}) \in f(n) = O(n^{\log n - \epsilon}) : case 1$$

$$T(n) = \theta(n^{\log b} \log n) \in f(n) = \theta(n^{\log b})$$
 : case?

$$T(n) = \Theta(f(n)) \in f(n) = \Omega(n^{\log u} + E)$$
 ; Case 3

$$T(n) = PT\left(\frac{n}{r}\right) + n$$

$$f(n)$$

$$\frac{1}{r} \frac{1}{r} \frac{$$

$$T(n) = \ell^{*}T(\frac{n}{\ell}) + O(n^{\ell})$$

$$T(n) = O(n^{\ell})$$

$$T(n) = \ell^{*}T(\frac{n}{\ell}) + \sqrt{n}$$

$$O(n^{\ell})$$

$$T(n) = \ell^{*}T(\frac{n}{\ell}) + \sqrt{n}$$

$$\log_{k}^{n} = \log_{k}^{n} O_{k}^{k} = n^{k} + n^{k}$$

$$T(n) = O(n)$$

$$\sqrt{n} = O(n)$$

$$\sqrt{n} = O(n)$$

$$\sqrt{n} = O(n)$$

$$\sqrt{n} = O(n)$$

$$T(n) = \ell^{*}T(\frac{n}{\ell}) + n!$$

$$\log_{k}^{n} = \log_{k}^{n} \ell^{*}(n) = n!$$

$$T(n) = O(n!)$$

$$T(n) = \ell^{*}T(\frac{n}{n}) + \frac{n}{\ell}$$

$$O(n) = \ell^{*}T(\frac{n}{n}) + \frac{n}{\ell}$$

$$T(n) = {}^{p}T(\frac{n}{r}) + \frac{n}{r}$$

$$n^{\log p} = n \quad f(n) = \frac{n}{r}$$

$$n = \Theta(\frac{n}{r})$$

$$T(n) = \Theta(n\log n) : Case I$$

$$T(n) = {}^{p}T(\frac{n}{r}) + \frac{n}{\log n}$$

$$\log n$$

$$n = \frac{9}{\log n}$$

$$X \frac{n}{\log n} = O(n^{1-\varepsilon})$$
?

$$\chi \frac{n}{\log n} = \Theta(u)$$

ے اس ممال لے با استعادہ از قصبہ اصلی منی توان حل کرد.