1 = c2+ c2+c2+c2+... C+2C+4C+8C+..... = Cx2,2-c = C (2°+21+...+ 2) [Cx]x(2k+1-1) who ? Total coste 1 7 いっ GP som 2 or (p"-1) =>TC = O(n), 1 $T(\eta_{k}) \longrightarrow cx2^{k}$ η_{k} $T[n/k] \qquad T(n/h) \qquad T(n/h) \qquad T(n/h) \qquad T(n/h) \qquad T(n/k) \qquad = c \times 2^{2}$ $T[n/k] \qquad T(n/k) \qquad T[n/k] \qquad T[n/k] \qquad T[n/k] \qquad = (8c) \quad c \times 2^{3} \qquad n/s \quad = (2c) \quad = (2c) \quad n/s \quad = (2c) \quad =$ Z . 24 n/2] T(n/2) <-- C+C=2C (c×2) T(n) = C82 T(n/2k) T(n/2k) $\Rightarrow \log_2 n = \log_2(2^h)$ = 1 M2 = 16 16/2 T(n)= {2T(n/2)+C, n>J シュース Rumin MAP 7/2 = 1 (k = 10gm [- U /

Rewarian bree method

19 January 2025 21:39

$$T(n) = \begin{cases} 2T(n)_{2} + n & n > 1 \\ 1 & n = 1 \end{cases}$$

$$T(n)_{2} = 1 & n = 1 \\ T(n)_{2} = 1 & n =$$