

 $nK \log_{K}^{n} = nK \frac{\ln n}{\ln K} = n \cdot \ln n \cdot \frac{K}{\ln K}$ $\left(n \ln n \frac{K}{\ln K}\right)' = n \ln n \frac{I \times \ln K - K \times \frac{1}{K}}{\left(\ln K\right)^{2}} = o \implies \ln K = 1 \implies \boxed{K = e}$

$$T(n) = KT\left(\frac{n}{K}\right) + n \log K$$

$$\xrightarrow{n \log K} \qquad \xrightarrow{n \log K} \qquad \xrightarrow{n \log K} \qquad o$$

$$\xrightarrow{\frac{n}{K}} \qquad \frac{n}{K} \longrightarrow \frac{n}{K} \log K \times K = n \log K \qquad 1$$

$$\xrightarrow{\frac{n}{K^2}} \qquad \vdots$$

$$1$$

$$1$$

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$$\frac{n}{Ki} \rightarrow \frac{n}{Ki} \rightarrow \frac{n}{Ki} \rightarrow \frac{n}{Ki} \rightarrow \frac{n}{Ki} \rightarrow \frac{n}{Ki} \rightarrow \frac{n}{Ki} \rightarrow \frac{1 - \log n}{Ki}$$
 $\frac{\log n}{Ki} \rightarrow \frac{\log n}{Ki} \rightarrow \frac{1}{Ki} \rightarrow \frac{1}{$