+ n + n + n / log n $T(n) = n\left(1 + r\left(\frac{1}{r}\right) + \dots + r^{ly^{n}}\left(\frac{1}{r^{ly^{n}}}\right)\right) = n \times k \times 1$ لا برایر تعواد توان عای از ۲ است که م کو حکه تر بار سادی) سیرای ا K = log n - cie ju log l log n u l K ins = mi $\Rightarrow T(n) = O(n \log n)$

$$T(n) = N\left(1 + \frac{1}{r} + \frac{1}{r} + \dots + \frac{1}{n}\right)$$

$$1 + \frac{1}{r} + \frac{1}{r} + \dots + \frac{1}{n} < 1 + 1 + \dots + 1$$

$$1 + \frac{1}{r} + \frac{1}{r} + \dots + \frac{1}{n} < 1 + 1 + \dots + 1$$

$$1 + \frac{1}{r} + \frac{1}{r} + \dots + \frac{1}{n} > 0$$

$$1 + \frac{1}{r} + \frac{1}{r} + \dots + \frac{1}{n} > 0$$

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$$T(n) = 1+r+\cdots+n$$

$$T(n) = \frac{n(n-1)}{r} = \frac{n^{r}-n}{r}$$

$$T(n) \in H(n^{r})$$

