1. 网红极限题: him n n

法一:不拿式放缩:

法二:分段估值:  $\frac{1}{2} = \frac{1}{2} \frac{1}{N} = \frac{1}{2} \frac{1}{N} + \frac{1}{2}$ 

送三: Sto|Z|定理:  $\int_{n\to\infty} \frac{1}{n+n^{\frac{1}{2}}+\cdots+n^{\frac{1}{n}}}{1} = \lim_{n\to\infty} \frac{1}{n-(n-1)+n^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}+\cdots+n^{\frac{1}{n}}}{1} = \lim_{n\to\infty} \frac{1}{n-(n-1)+n^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}+\cdots+n^{\frac{1}{n}}}{1} = \lim_{n\to\infty} \frac{1}{n-(n-1)+n^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}+\cdots+n^{\frac{1}{n}}}{1} = \lim_{n\to\infty} \frac{1}{n-(n-1)} + \lim_{n\to\infty} \frac{1}{n-(n-1)+n^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}+\cdots+n^{\frac{1}{n}}}{1} = \lim_{n\to\infty} \frac{1}{n-(n-1)+n^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}+\cdots+n^{\frac{1}{2}}}{1} = \lim_{n\to\infty} \frac{1}{n-(n-1)+n^{\frac{1}{2}}-(n-1)+n^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-1)^{\frac{1}{2}}-(n-$ 

$$=\lim_{n\to\infty}\left(1+\sqrt{n}+\frac{\sum_{k=2}^{n-1}k}{(n-1)^{\frac{1}{2}}}\right)$$

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$$\begin{bmatrix} \cdot \\ \cdot \end{bmatrix} = \begin{bmatrix} \cdot \\ \cdot \end{bmatrix}$$