9910770V (Sigo) الم المراز ٢ وائر X ~ Mir Golia) $f_n(n) = \frac{1}{\Gamma(o, l_n(r)) \Gamma(o, l_n(d))} \times \frac{1}{n^r l_n(n)}$ ۲<> < کر $f(x)(x) = g(\lambda) \times \frac{1}{x^r \ln(x)}$ Lim (X, X, ... X,) =? $(X_1X_7 - X_n)^{\frac{1}{n}} = e^{\frac{Y_1 + \dots + Y_n}{n}}$ $= e^{\frac{Y_1 + \dots + Y_n}{n}}$ حالا الم راج البرح كنم $\mu = E(y_i) = E(\ln(x_i)) = \begin{cases} \lambda \\ \ln x \times g(\lambda) \times \frac{1}{2^r \ln x} dx \end{cases}$ $= \int_{r}^{\lambda} g(\lambda) \xrightarrow{\text{da}} = \int_{r}^{\lambda} g(\lambda) \int_{r}^{\lambda} \frac{d\lambda}{\lambda^{r}}$ $= \sum_{n=1}^{\infty} \frac{-g(\lambda)}{\lambda} \left[\frac{1}{\lambda} - \frac{1}{r} \right]$ $\frac{\lambda=\Lambda\Rightarrow g(\lambda)\simeq r}{\lambda=\Lambda}$ $M=-r\left(\frac{1}{\Lambda}-\frac{1}{r}\right)=\frac{q}{\Lambda}$

$$\underset{h\to\infty}{=} \lim_{h\to\infty} \left(\chi_1 \chi_2 \dots \chi_n \right)^{\frac{1}{n}} = e^{\frac{q}{n}}$$