NEL FUICIA

: (1-9) -5 b.900 uinii, neeged c- (1-1):
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$$x = \log_{\frac{1}{\alpha}}(n)$$
 (=) $\left(\frac{1}{\alpha}\right)^{\alpha} = n$) NIGS

 $x = \log \frac{1}{1}(u)$ (=) $(\frac{1-u}{1})^{2-1}$ (1) $(\frac{1-u}{1})^{2} = u$

18/26 Chu, rdag (w) 20/20 12/2 1/20 12/2 (w) 20/20 (w) 2

$$log \frac{1}{1-\alpha}(n) = \frac{log(n)}{log(\frac{1}{1-\alpha})}$$

be using 1,0, Yillear U; SIBS ,2 U,2102 6,23 : 5 0 gre ge bining y gk V, JET, E J, U, V XI 219,006 1345 Kg 24182 8 = 1 29.11 Beve, v c, Revit 02 1-0200 / get ou & u = $c \cdot n \log n \leq \log_2 \left(\frac{n!}{2^n} \right)$ $\left(\frac{n}{2}\right)^2 \leq n!$ - 6 USSIES UESJUS (NO GNUE) $\langle z \rangle = \frac{\left(\frac{n}{2}\right)^{\frac{n}{2}}}{2^{\frac{n}{2}}} < \frac{n!}{2^{\frac{n}{2}}}$ $(z) \log\left(\frac{n}{z}\right)^{\frac{n}{2}} - \log\left(2^{n}\right) \leq \log\left(\frac{n!}{2^{n}}\right)$ (=) $\frac{n}{2}\log(\frac{n}{2}) - n\log(2) \leq \log(\frac{n!}{2^n})$ = $\frac{n}{2}\log(\frac{n}{2})-n \leq \log(\frac{n!}{2^n})$ $(2 \log(\frac{n}{2}) - 1) \leq \log(\frac{n!}{2^n})$

(=) c.nlog n $\leq \log\left(\frac{n!}{2^n}\right)$

 $= \int \left| \log_2\left(\frac{n'}{2^n}\right) - SU(n\log n) \right|$