$f(n) \neq o(g(n)) \quad \text{pel} \quad f(n) = (g(n)) \quad \text{sec}$   $f(n) = (g(n)) \quad \text{sec}$ AUSC. M. 1-128 C 1017 (2)

$$2^{h} = O(n!) = O(n)$$

1131 ~ (n) 7/-. JA -

th, ) = (H)  $f^2 = 2fh = O(fn)$ 

$$f(n) = 0 \left( f(n) \right)$$

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$$f(n) = 0 \left( f(n) \right)$$

$$f(n) = 0$$

$$\int_{N} \frac{h(x)}{h(x)} = o(n) \int_{N} \frac{h(x)}{h(x)}$$

Source Dest Temp
$$\frac{2^{8}-256}{2^{16}-65,000}$$

10 T(n=2-T(n-1)-1=2[2-T(n-2)+1]=4T(n-2)+3 T(n-1)=2T(n-2)+1=4[2T(n-3)+1]+3=8T(n-3)+7T(h-2)=2T(h-3)+1  $^{2}$ [2T(n-4)+1] +7=16T(n-4)+75= 32T(n-5)+31[(n-3)=)T(n-4)+1  $\frac{1}{11} = 1$   $\frac{1}{1-1} = 1$ =2'T(n-i)+(2'-1)

(Illing) > N) N (Ish - 1 202N 220 MJ - 1 fin - > '1 4-112- rel (lehpl) - 3 1) Th)=(ndia) Ton= (A(h)) T(h)=()(f(h).logn) (2)

for he ngn h.ne nyn hug 1 (h) \f \( \langle \( \langle \) T(h) = 2T(h) + h fn  $\alpha = 24b = 2, f(h) = h fn$ goa = h hgba+6

T(h)=2T(hb)+hgn THOMAS & SORN, The Alie  $h^{40} = h$   $\int (h) = h f h$  $T(n) = M(n) \cdot (gn) = adm \omega(n / 2n)$  2012 LOS MAZINA 100 215 CIL.

$$T(n) = T(n^{\frac{1}{2}})+1 = T(n^{\frac{1}{2}})+2 = T(n^{\frac{1}{2}})+3 = -1$$

$$T(n^{\frac{1}{2}}) = T(n^{\frac{1}{2}})+1$$

$$T(n^{\frac{1}{2}}) = T(n^{\frac{1}{2}})+1$$

$$= T(2) = 1$$

$$= T(2) + fgn = O(fgn)$$

$$= T(2) = 1$$

$$= \frac{1}{2} = fn = 1$$

$$= \frac{1}{2} = fn = 1$$