

$$T(n) = 16 T(\gamma_4) + n$$

$$a_{216+b=4}, b=1, p=0$$

$$16 > 4'$$

$$T(n) = P(n^{\log_2 4'})$$

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T(n) = 0.5 T(y2)+/A (9) T(n) = 0.5 T (Yz) +n-1 a 20.5, 6 = 2, R 21, P20 0.5227 (0.52/5) T(n)= (+) (n log 20.5 o (log n))) T(n) = () (/ (log n)) T(n) = 4 T (M2) + Leg n 4>20, P21 T(n) 2 (A (n2) T(n) 2 H (n2) T(n) 23 T(m3) + Vh 18 T(n) = 3T (73) + n /2 az3, b=3, n=1/2, P=0 3>312 T(n) = (n) (10933) T(n) 2 (H) (n) T(n) = 4+ (n/2)+Cn az4, bz2, kz1, Pz0 T(n) = (n (n2))
T(n) = (n2)

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$$T(n) = 2T(n/2) + n/2$$

$$az3, bz2, kz1, Pz0$$

$$3z3' 4 P > -1$$

$$T(n) = (H) (n^{1/2} 2^{3} (logn)^{1/2})$$

$$T(n) = (P) (m logn)$$

18)
$$T(n) = 6T(M_3) + n^2 \log n$$

 $a = 6, b = 3, k = 2, p = 1$
 $6 < 3^2 + p > 0$
 $T(n) = (m^2 / \log n)'$
 $T(n) = (m^2 (\log n))'$

$$\begin{array}{c|c}
\hline
26) & T(n) \ge 64 \, \overline{f} \, (ng) - n^2 \log n \\
& a \ge 64 \, 9b = 8, \, k \ge 2, \, P \ge 1 \\
& 64 \ge 8^2 \, (p) - 1 \\
& 7(n) \ge \overline{H} \, \left(n \, \log_8 64 \, o \, (\log n)^{1/1} \right) \\
& T(n) \ge \overline{H} \, \left(n^2 \, \ell \, \log n \right)^2
\end{array}$$

$$\frac{2D}{4(n)} = 7T(m_3) + n^2$$

$$a \ge 7, b = 3, k \ge 2, \theta \ge 0$$

$$7 < 3^2 + \rho \ge 6$$

$$T(n) \ge (n^2 / \log n)^0$$

$$T(n) \ge (n^2 / \log n)^0$$