$$a = 36 \quad b = 6 \quad \{(n) = 2n \quad \{(n) = 0 \quad (n^2 - \epsilon)\}$$

$$n \log_b(a) = n \log_b(3c) = n^2 \quad \text{whe howe } \epsilon = 1$$

$$Case 1 & \text{where } \log_b > \epsilon = 2 > 1$$

$$So \quad T(n) = O(n^2)$$

$$T(n) = 5 \log_3 > 4 + n^{1/2} \quad \{(n) = 0 \quad (n^2 + \epsilon)\}$$

$$a = 5 \quad b = 3 \quad \{(n) = 4 \quad n^{1/2} \quad \{(n) = 0 \quad (n^2 + \epsilon)\}$$

$$a = 5 \quad b = 3 \quad \{(n) = 4 \quad n^{1/2} \quad \{(n) = 0 \quad (n^2 + \epsilon)\}$$

$$Case 1 = where \quad 1, 11 > 1, 2$$

$$So \quad T(n) = O(n^{1/4})$$

$$a = 12 \quad b = 4 \quad \{(n) = n^2 \log_3(n)\}$$

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$$a = 12 \quad b = 4 \quad$$

(n)= 3T(n/s)+T(n/2)+ 2n A Since n is the greatest

At the first hard, 5'd say that  $\theta(n) = (2^n)$