T Name: - Aashi Ashokbhai Yoyani ID: - 1002205247 Hands-ON 3 Q1 function n=f(n) for i=1; nFind the runtime of the algorithm mathematically. Ans The outer loop runs from 1 to n, and for each iteration of the outer loop, the inner loop also runs from 1 to n. Analyzing the number of iterations: For i=1, the inner loop runs n times.
i=2, the inner loop runs n times. i=n, the inner look runs n times. Sale of the sale o



The total number of iterations of both loops:

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$$\Rightarrow \sum_{i=1}^{n} \frac{3}{j^{2}} 1$$

$$= > \left[\begin{array}{c} x \\ \hline z \\ \hline z \\ \end{array} \right] = N$$

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$$=7 N \times n - n^2$$

The runtime of the algorithm is o(n2).