

Understanding Time Complexity in Python Author: Madhu Dadi Tags: python Source: <https://madhudadi.in/blog/post>

[code block]Output[code block]This code calculates the sum and product of a list of integers.Explanation- Initializes

[code block]This code snippet demonstrates nested loops to print combinations of elements from twolists.Explanati

Explanation- Initializes variables n, j, and k with values 10, 10, and 0 respectively.- The outer loop iterates from $n/2$

- Uses a while loop that continues as long as n is greater than 0. - Inside the loop, it adds the last digit of n (obtained

- Dictionary key lookup: $O(1)$ average case $\hat{=}$ retrieving a value from a dict of 100,000keys takes < 1 microsecond