complexity Thursday, January 5, 2023 7:22 PM
() Loop - for i en range (0, n):
n = n + h
Space complexity: - 0(1) time Complexity: - O(n)
2) Nested loop - for (for) sdepends upon no. of imput
Space Complexity: 0(1) - lime Complexity: 0(N)
3 1f:
Statement having Complexity (Time): O(n) Which Statement is correct that is the time Complexity of
CIX .
Statement having Complexity: O(N2)
$\begin{array}{c} (7) \text{if } zyz = 0(1) \\ \end{array}$
for i m lange :.
for i'm large: Statement 1 — O(n) Statement 1 — O(n) overall => O(1+n+n+1)
While:
Statement 2 — 6 in) O (In) Constants are
azatt = O(1) heglected
(9) for i in large:
Statement: 0 (n2)
$\int_{\mathcal{L}} 20 \left(N^2 \right)$
(5) for i in large: Stelemend: 0 (n²) 20 (n²n²) 20 (n²) Smaller value
Sfaturent O(N)