Maximum Pairwise Product

List = [1, 2, 3]

options available → [1, 2] ⇒ 1 * 2 = 2

[1, 3] ⇒ 1 * 3 = 3

[2, 3] ⇒ 2 * 3 = (6) → Output

Approach - 1 (Pseudo Code)

//→ find all possible Combinations of numbers in the list.

output// Prod = 0

n-times { for i : 0 → [len(List) - 1]

n-times { for j : (i+1) → (len[List])

(1) constant { if (A[i] * A[j] > prod)

(1) Constant { prod = A[i] * A[j]

return (prod.)

Time Complexity

Space Complexity } Same as the Combination problem

$O(n^2)$