Roll Number

23D21A05H4

Logo

# STUDENT REPORT

#### **DETAILS**

#### Name

SAMALA JAHNAVI

## EXPERIMENT Time

MAXIMIZE PAIR PRODUCT

## Description

EXITITLE TITLE Noah is given an integer array A of length N. He must perform the following operations:

Select any integer pair having sum equal to 18 from the

Select the pair with maximum product such that the first element of the pair is greater than the second element of

Your task is to help Noah find and return a pair in the form of an integer array, which satisfies the mentioned conditions.

#### **Input Specification:**

input1: An integer value N, representing the size of array A.

Input2: An integer array A.

**Output Specification:** 

Return a pair in the form of an integer array, which satisfies the mentioned conditions.

#### **Sample Input:**

11 12 2 8 10 11 9 8

### **Sample Output:**

[10, 8]

### **RESULT**

5 / 5 Test Cases Passed | 100 %

```
def find_max_prod_pair(N,A):
    max_prod = float('-inf')
    res_pair = None
    for i in range(N):
        for j in range(N):
            if i!=j:
                    prod = A[i]*A[j]
                    if prod > max_prod :
                        max\_prod = prod
                        res_pair = [A[i],A[j]]
    return res_pair
N = int(input())
A = list(map(int,input().split()))
```

```
if A[i]+A[j] == 18 and A[i] > A[j]:
print(find_max_prod_pair(N,A))
```