#### PROBLEM 1:

# **TEST CASE 1:**

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Design/ProjlArray.py"

• surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Design/ProjlArray.py"

Enter elements of the first sorted subarray (space-separated):

Enter elements of the second sorted subarray (space-separated): 3 7 9

Merged Sorted Array

[3, 7, 9]

## TEST CASE 2:

\*\*Surabhiraghavan@Surabhis-MacBook-Pro Algo Design % Users/Surabhiraghavan/Desktop/Algo Design/Proj1Array.py"

Enter elements of the first sorted subarray (space-separated): 2 7 9

Enter elements of the second sorted subarray (space-separated): 1

Merged Sorted Array [1, 2, 7, 9]

o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## **TEST CASE 3:**

Surabhiraghavan@Surabhis-MacBook-Pro Algo Design % Just/Local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Design/ProjlArray.py"

Enter elements of the first sorted subarray (space-separated): 1 7 10 15

Enter elements of the second sorted subarray (space-separated): 3 8 12 18

Merged Sorted Array
[1, 3, 7, 8, 10, 12, 15, 18]

#### TEST CASE 4:

• surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Array.py"
Enter elements of the first sorted subarray (space-separated): 1 3 5 5 15 18 21
Enter elements of the second sorted subarray (space-separated): 5 5 6 8 10 12 16 17 17 20 25 28

Merged Sorted Array
[1, 3, 5, 5, 5, 6, 8, 10, 12, 15, 16, 17, 17, 18, 20, 21, 25, 28]

## PROBLEM 2:

## ALACARTE MULTIPLICATION

# **TEST CASE 1:**

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1AlaCarteMultiplication.py" ● surabhiraghavan@Surabhis—MacBook—Pro Algo Design % /usr/local/bin

surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1AlaCart eMultiplication.py"

surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## **TEST CASE 2:**

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1AlaCarteMultiplication.py"

 surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1AlaCart eMultiplication.py" 125959625

○ surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## TEST CASE 3:

PROBLEMS OUTPUT TERMINAL ··· ∑ Python + ∨ □ 🛍 ··· ✓

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1AlaCarteMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1AlaCart eMultiplication.py" -46763892
- surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## TEST CASE 4:

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1AlaCarteMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1AlaCart eMultiplication.py" -699571972416124973504
- o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## **TEST CASE 5:**

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1AlaCarteMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1AlaCart eMultiplication.py" 4533423639104649634397093450504343098160
- o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

#### TEST CASE 6:

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1AlaCarteMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1AlaCart eMultiplication.py" 4533423639104649634397093450504343098160
- surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## RECTANGLE MULTIPLICATION

# **TEST CASE 1:**

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1RectangleMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Rectang leMultiplication.py" 51058000
- o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

#### TEST CASE 2:

- /usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1RectangleMultiplication.py"
- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Rectang leMultiplication.py"
   125959625
- o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## **TEST CASE 3:**

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1RectangleMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Rectang leMultiplication.py" -46763892
- o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## TEST CASE 4:

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1RectangleMultiplication.py"

- surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Rectang leMultiplication.py"
   -699571972416124973504
- o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

## TEST CASE 5:

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1RectangleMultiplication.py"

 surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Rectang leMultiplication.py"

4533423639104649634397093450504343098160

🗅 surabhiraghavan@Surabhis-MacBook-Pro Algo Design %

#### TEST CASE 6:

/usr/local/bin/python3 "/Users/surabhiraghavan/Desktop/Algo Desig n/Proj1RectangleMultiplication.py"

 surabhiraghavan@Surabhis-MacBook-Pro Algo Design % /usr/local/bin /python3 "/Users/surabhiraghavan/Desktop/Algo Design/Proj1Rectang leMultiplication.py"

4533423639104649634397093450504343098160

o surabhiraghavan@Surabhis-MacBook-Pro Algo Design %