**Set: A**

def add\_arrays(n, A, B):

min\_heap = MinHeap()

for i in range(0, n):

min\_heap.insert(A[i])

for i in range(0, n):

x = min\_heap.extract()

min\_heap.insert(x+B[i])

For i in range(0, n):

A[i] = min\_heap.extract()

return A

**Set : B**

def sub\_arrays(n, A, B):

max\_heap = MaxHeap()

for i in range(0, n):

max\_heap.insert(A[i])

for i in range(0, n):

x = max\_heap.extract()

max\_heap.insert(x-B[i])

For i in range(0, n):

A[i] = max\_heap.extract()

return A

Marking Rubric:

1. Declaring appropriate heap - 2 marks
2. Inserting elements of A in the heap - 4 marks
3. Adding/ Subtracting elements of B - 4 marks
4. Taking the sorted elements into A - 4 marks
5. Returning array A - 1 marks