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