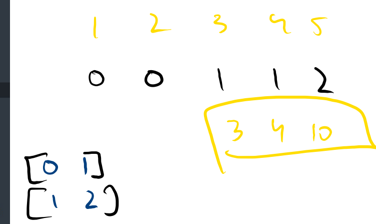
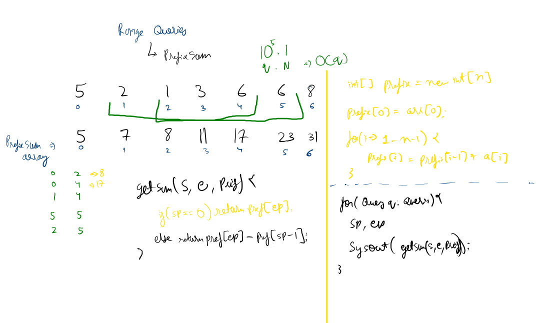
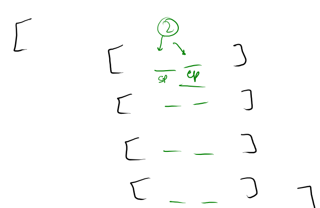
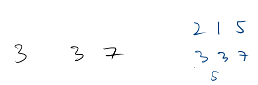
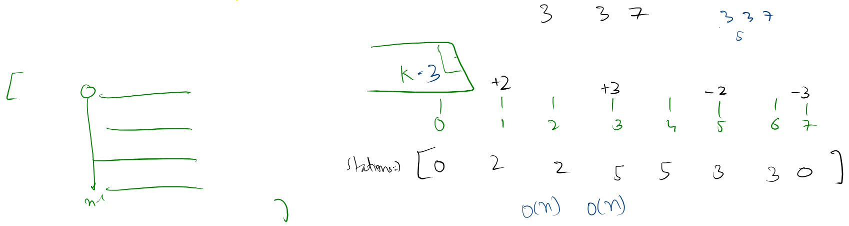
```java
public static int maximumSum(int[] A, int[][] ops) {
    //Step 1: creating contri array
    int[] contri  = new int[A.length];

    for(int[] op: ops){
        int sp = op[0];
        int ep = op[1];
        contri[sp]++;
        if(ep+1<A.length) contri[ep+1]--;
    }
    for(int i = 1;i<A.length;i++) contri[i] += contri[i-1];
    //Sort both
    Arrays.sort(A);
    Arrays.sort(contri);
    // summation
    int sum = 0;
    int md = 1000000007;
    for(int i =0;i<A.length;i++) sum = (sum%md +  (A[i] * contri[i])%md)%md;
    return sum%md;

}
```

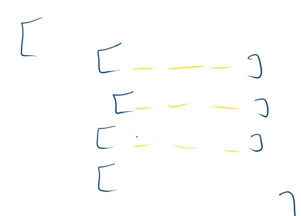


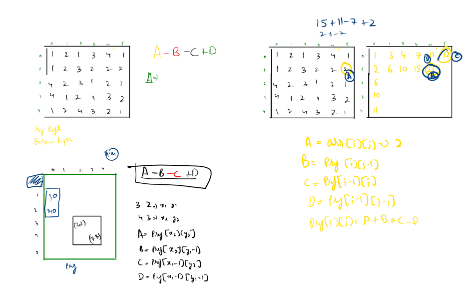












1. Create contribute array
2. Sort both array
3. calc ans = $\sum a[i] * contri[i]$