# **Find Maximum Equal sum of Three Stacks**

Given three stacks S1, S2 & S3 of size N1, N2 & N3 respectively, having only **Positive** Integers. The task is to find the possible equal **maximum sum** of the stacks with the removal of top elements allowed. Stacks are represented as an array, and the first index of the array represents the top element of the stack.

## Example 1:

```
Input:
N1 = 3, N2 = 4, N3 = 2
S1 = {4,2,3}
S2 = {1,1,2,3}
S3= {1,4}
Output:
5
Explanation:
We can pop 1 element from the 1st stack, and 2
elements from the 2nd stack. Now remaining elements
yield the equal sum of the three stacks, that is 5.
```

## Example 2:

```
Input:
N1 =2, N2 = 1, N3 = 3
S1 = {4,7}
S2 = {10}
S3 = {1,2,3}
Output:
0
Explanation:
We will never get an equal sum after popping
```

some elements, so the answer will be 0.

### Your Task:

You don't need to read input or print anything. Your task is to complete the function **maxEqualSum()** which takes the arrays **S1[], S2[],** and **S3[]** and their sizes **N1, N2,** and **N3** as inputs and returns the maximum equal sum we can obtain.

**Expected Time Complexity:** O(N1+N2+N3)

**Expected Auxiliary Space:** O(1)

### **Constraints:**

 $1 \le N1, N2, N3 \le 10^5$ 

 $1 \le S1[i], S2[i], S3[i] \le 10^3$ 

The sum, N1+N2+N3 doesn't exceed  $10^6$