**[Minimum sum partition](https://practice.geeksforgeeks.org/problems/minimum-sum-partition3317/1)**

Given an array **arr** of size **n**containing **non-negative**integers, the task is to divide it into two sets **S1** and **S2** such that the absolute difference between their sums is minimum and find the **minimum** difference

**Example 1:**

**Input**: N = 4, arr[] = {1, 6, 11, 5}

**Output:** 1

**Explanation**:

Subset1 = {1, 5, 6}, sum of Subset1 = 12

Subset2 = {11}, sum of Subset2 = 11

**Example 2:**

**Input:** N = 2, arr[] = {1, 4}

**Output:** 3

**Explanation**:

Subset1 = {1}, sum of Subset1 = 1

Subset2 = {4}, sum of Subset2 = 4

**Your Task:**  
You don't need to read input or print anything. Complete the function **minDifference()**which takes **N** and array **arr**as input parameters and returns the integer value

**Expected Time Complexity:** O(N\*|sum of array elements|)  
**Expected Auxiliary Space:** O(N\*|sum of array elements|)

**Constraints:**  
1 ≤ N\*|sum of array elements| ≤ 106  
0 < arr[i] <= 105