Problem Statement **Suggest Edit**

You are given an array Arr consisting of n integers, you need to find a valid triplet as explained below.

An array is said to have a valid triplet {arr[i], arr[j], arr[k]} if there exists three indices i, j and k such that i != j, j != k and i != j and arr[i] + arr[j] = arr[k] or arr[i] + arr[k] = arr[j] or arr[k] + arr[j] = arr[i].

For Example:

```
Arr = 10, 5, 5, 6, 2,
In this array, the triplet {10, 5, 5} is valid triplet because, 5 + 5 = 10.
```

Note:

The elements in the array need not be distinct.

Input Format:

The first line of the input contains an integer T, denoting the number of test cases.

The first line of each test case contains the integer N, denoting the size of the array.

The second line of each test case contains N space-separated integers denoting the array elements.

Output Format:

For each test case, every line of output contains “true” if there is a valid triplet and the user has returned a valid one, else "false" will be printed.

Note :

You do not need to print anything, it has already been taken care of. Just implement the given function.

Constraints:

```
1 <= T <=  50
1 <= N <= 10^3
1 <= Arr[i] <= 10^4
```

Time Limit: 1 sec

Sample Input 1:

```
2
4
1 1 1 1
5
10 5 5 6 2
```

Sample Output 1:

```
false
true
```

Explanation For Sample Input 1:

In the first case, no valid triplet can be formed.

5 5 10 is the triplet in which the sum of two elements {5,5} is equal to the third {10}.

Sample Input 2:

```
2
6
1 2 3 1 2 3
6
1 1 2 2 1 1
```

Sample Output 2:

```
true
true
```