DAY 40

INTERVIEW BIT PROBLEMS :

1. Triplets with Sum between given range

Given an array of real numbers greater than zero in form of strings.
Find if there exists a triplet (a,b,c) such that 1 < a+b+c < 2 .
Return 1 for true or 0 for false.

Example:
Given [0.6, 0.7, 0.8, 1.2, 0.4] ,
You should return 1
as
0.6+0.7+0.4=1.7
1<1.7<2
Hence, the output is 1.

O(n) solution is expected.
Note: You can assume the numbers in strings don't overflow the primitive data type and there are no leading zeroes in numbers. **Extra memory usage is allowed.**

CODE :

PYTHON

```python
class Solution:
    # @param A : list of strings
    # @return an integer
    def solve(self, A):
        n=len(A)
        l=[]
# assigning the values from the list of strings to new list of floats
        for x in A:
            l.append(float(x))
        a=l[0]
        b=l[1]
        c=l[2]
        for i in range(3,n):
            if((a+b+c)<2 and (a+b+c)>1):
                return 1
            elif (a+b+c)>2:
                if(a>b and a>c):
                    a=l[i]
                elif (b>a and b>c):
                    b=l[i]
                else:
                    c=l[i]
            else:
```

```python
        if(a<b and a<c):
            a=l[i]
        elif (b<a and b<c):
            b=l[i]
        else:
            c=l[i]
    if((a+b+c)<2 and (a+b+c)>1):
        return 1
    else:
        return 0
```