

## DAY 51

### INTERVIEW BIT PROBLEMS :

#### 1. Diffk II

Given an array A of integers and another non negative integer k, find if there exists 2 indices i and j such that  $A[i] - A[j] = k$ ,  $i \neq j$ .

**Example :**

**Input :**

A : [1 5 3]

k : 2

**Output :**

1

as  $3 - 1 = 2$

**Return 0 / 1** for this problem.

**CODE :**

**PYTHON**

class Solution:

**# @param A : tuple of integers**

**# @param B : integer**

**# @return an integer**

def diffPossible(self, A, B):

A=list(A)

n=len(A)

A.sort()

i=0

j=1

while i<n and j<n:

if i!=j and A[j]-A[i]==B:

return 1

elif A[j]-A[i]<B:

j+=1

else:

i+=1

return 0

**(OR)**

def diffPossible(self, A, B):

hash = set()

for i in A:

if i - B in hash or i + B in hash:

return 1

hash.add(i)

return 0