

Find Pair Given Difference

Given an array **Arr[]** of size **L** and a number **N**, you need to write a program to find if there exists a pair of elements in the array whose difference is **N**.

Input: L = 6, N = 78

arr[] = {5, 20, 3, 2, 5, 80} **Output:** 1

Explanation: (2, 80) have difference of 78.

```
def findPair(self, arr, L, N):  
    #code here  
    arr.sort()  
    start = 0  
    end = len(arr)-1  
    for i in range(L):  
        if self.binarysearch(arr, i+1, end, N+arr[i]):  
            return True  
    return False  
  
def binarysearch(self, arr, low, hi, target):  
    while low<=hi:  
        mid = (low+hi)//2  
        if arr[mid]==target:  
            return True  
        elif arr[mid]>target:  
            hi = mid-1  
        elif arr[mid]<target:  
            low = mid+1  
    return False
```