```
========Input========
solver = Solution()
d = [8, 7, 9, 5, 2, 3]
f = [9, 4, 6, 1, 8, 3]
print solver.prob6_3(d,f)

========Output========
True

========Python code (generates random input) ==============
import sets
import random
class Solution(object):
    def prob6_3(self,d,f):
        N = len(d)
        s= [d[k] - f[k] for k in range(N)]
        SS = sum(s)
        Memo = [[ [] for i in range(N)] for j in range(N)]
        #diag base case
        for i in range(N):
            Memo[i][i].append(sum(s[0:i+1]))
        #vertical base case
        for i in range(N):
            Memo[i][0] = list(set(s[0:i+1]))

        for i in range(2,N):
            for j in range(1,i):
                temp = [x + s[i] for x in Memo[i-1][j-1]]
                Memo[i][j] = list(set(Memo[i-1][j]+temp))
        for ele in Memo[N-1][N/2-1]:
            if ele < SS and ele > 0:
                return True
        return False
solver = Solution()
n = 6
maxn = 10
d= random.sample(range(1,maxn), n)
f = random.sample(range(1,maxn), n)
print d,f
print solver.prob6_3(d,f)
```