**Title**

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**Permuting Two Arrays**

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**Description**

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There are two na-element arrays of integers, A and B. Permute them into some A' and B' such that the relation A'[i] + B'[i] >= k holds for all i where 0 <= i < n.

There will be q queries consisting of A, B, and k. For each query, return YES if some permutation A'B', satisfying the relation exists. Otherwise, return NO.

**Example**

A = [0, 1]

B = [0, 2]

k = 1

A valid A', B' is [1, 0] and B' = [0, 2] : 1 + 0 >= 1 and 0 + 2 >= 1. Return YES.

**Function Description**

Complete the twoArrays function in the editor below. It should return a string, either YES or NO.

**twoArrays has the following parameter(s):**

int k: an integer

int A[n]: an array of integers

int B[n]: an array of integers

**Returns**

string: either YES or NO

**Input Format**

The first line contains an integer q, the number of queries.

The next q sets of 3 lines are as follows:

The first line contains two space-separated integers n and k, the size of both arrays A and B, and the relation variable.

The second line contains n space-separated integers A[i].

The third line contains n space-separated integers B[i].

**Constraints**

1 <= q <= 10

1 <= n <= 1000

1 <= k <= 109

0 <= A[i], B[i] <= 109

**Sample Input**

STDIN Function

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2 q = 2

3 10 A[] and B[] size n = 3, k = 10

2 1 3 A = [2, 1, 3]

7 8 9 B = [7, 8, 9]

4 5 A[] and B[] size n = 4, k = 5

1 2 2 1 A = [1, 2, 2, 1]

3 3 3 4 B = [3, 3, 3, 4]

**Sample Output**

YES

NO

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**Code**

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package main

import(

    "fmt"

    "sort"

)

func main(){

    var k int32 = 1

    A := []int32{0, 1}

    B := []int32{0, 2}

    fmt.Println(twoArrays(k, A, B))

}

func twoArrays(k int32, A []int32, B []int32) string {

    var slcA, slcB []int

    for \_,v:= range A{

        slcA = append(slcA, int(v))

    }

    for \_,v:= range B{

        slcB = append(slcB, int(v))

    }

    sort.Ints(slcA)

    sort.Sort(sort.Reverse(sort.IntSlice(slcB)))

    var ans string = "YES"

    for i:= range slcA{

        if slcA[i]+slcB[i]<int(k){

            ans = "NO"

            return ans

        }

    }

    return ans

}

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