# Problem: Minimum Distances

**Sample Input**

6

7 1 3 4 1 7

**Sample Output**

3

Program:

n = int(input())

a = list(map(int, input().rstrip().split()))

diffvalue=0

diffList=[]

for i in range(n):

    for j in range(i+1,n):

        if a[i]==a[j]:

           diffvalue= abs(i-j)

           diffList.append(diffvalue)

if len(diffList) == 0:

    print(-1)

else:

    print(min(diffList))