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All Contests > Apr 2021 : CCC SRM KTR : CPS01 : Python Test 102 > Alice and Boat Trips

Alice and Boat Trips

Problem

Submissions

Leaderboard

Alice owns a company that transports tour groups between two islands. She has n trips booked, and each trip has pi passengers. Alice has m boats for transporting people, and each boat's maximum capacity is c passengers.

Given the number of passengers going on each trip, determine whether or not Alice can perform all n trips using no more than m boats per individual trip. If this is possible, print Yes; otherwise, print No.

Input Format

The first line contains three space-separated integers describing the respective values of n (number of trips), c (boat capacity), and m (total number of boats). The second line contains n space-separated integers describing the values of p0, p1, p2... pn-1

Constraints

1 <= n,c,m <= 100 1 <= pi <= 100

Output Format

Print Yes if Alice can perform all n booked trips using no more than m boats per trip; otherwise, print No.

Sample Input 0

5 2 2 1 2 1 4 3

Sample Output 0

Yes

Explanation 0

Alice has m=2 boats and a maximum capacity of c=2 passengers per boat. This means she can transport at most $m\cdot c=4$ passengers at a time.

There are n=5 tour groups, and the largest tour group contains $p_3=4$ passengers. Because Alice will be able to transport each group using $\leq m$ boats per group, we print Yes .

Sample Input 1

5 1 2 1 2 1 4 1

Sample Output 1

No

Explanation 1

Alice has m=2 boats and a maximum capacity of c=1 passenger per boat. This means she can transport at most $m\cdot c=2$ passengers at a time.

There are n=5 tour groups, and the largest tour group contains $p_3=4$ passengers. Because Alice does not have enough boats to transport a group of four passengers, we print No.

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Contest ends in 38 minutes

Submissions: 1715 Max Score: 100

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