Problem of the day

Jeffrey Chan

June 2024

1 Problem Statement

We are taking the a train today and there are n stops. This particular train line has inbound or out bound trains. In bound train is moving from station 1, station 2, to station n. Meanwhile, the out bound train is moving from station n, $n-1$, to station 1.

Jeff is about to travel from station X to station Y using one of the inbound and out bound train. Determine whether the train stops at station K during this travel.

Constraints

1. $3 \leq n \leq 100$

2. $1 \leq X,\ Y,\ K\ \leq n$

3. $X,\ Y,\ K$ are distinct

4. All input values are integers.

Input $N\ X\ Y\ Z$
Test Case 1: 7 6 1 3
output: Yes