Difference (warm-up)

You will receive a number n $(1 \leq n \leq 100)$, a positive number x $(1 \leq x \leq 100)$, and on the second line, n positive numbers.

Your task is to determine if the difference between any two numbers in the input is equal to x. If yes, print „Ano", otherwise print „Nie" (without quotes).

Examples

input	output
7 4 1 2 3 5 4 7 6	Ano