Jerry Cheese

Problem Code: **REC09A**

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All submissions for this problem are available.Jerry is a health-conscious mouse who loves eating cheese. He likes cheese so much that he will eat **all** the available cheeses. Currently, he has N cheese with distinct calorie value $a_1, a_2, \ldots, a_n$ Jerry wants his total calorie intake to be K. To achieve his calorie diet, he can steal **at most** 1 cheese such that:

- its calorie value should lie between the minimum and maximum calorie value of cheese he already has
- its calorie value should not coincide with any available cheese calorie value

Help Jerry decide if he can achieve a total calorie diet of K.

Input:

- First line of input contains 2 space-separated integers, N and K
- Second line contains N space-separated integer, $a_1, a_2, \ldots, a_n$

Output:

Print YES if Jerry can have a total calorie diet of K with **at most** 1 stolen cheese, otherwise print NO

Constraints

- $1 \leq N \leq 100$
- $1 \leq k \leq 10^5$
- $1 \leq a_i \leq 1000 (i = 1, 2, \ldots, N)$
- Every a_i is distinct

Sample Input 1:

3 10
1 2 4

Sample Output 1:

YES

Sample Input 1:

3 10
2 3 4

Sample Output 1:

NO

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