



Hello, 2024101067.

✓ Reach the Target

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Given a set of starting values, the task is to determine whether it is possible to transform any one of these values into a target number using a specific set of operations.

Note: You are given:

- An integer N , the number of starting values.
- An integer M (the target),
- An integer X , which represents the additive operation ($+ X$),
- An integer Y , which represents the multiplicative operation ($* Y$)
- An array of N integers, which represent the starting values.

For each starting value, you may perform these operations any number of times (in any order). Output **Yes** if there exists at least one starting value that can be transformed to exactly M ; otherwise, output **No**. It is assumed that the operations are such that they always move the current value toward the target based on the context (i.e., if a starting value is less than M , both operations should help in increasing the value; if it is greater than M , both operations should help in decreasing the value).

Input Format

- The first line contains four space-separated integers: N , M , X , and Y .
- The second line contains N space-separated integers, representing the starting values.

Output Format

- Print **Yes** (case-sensitive) if it is possible to reach M from any starting value using the given operations; otherwise, print **No**.





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- $2 \leq Y \leq 10^3$
- $1 \leq N * M \leq 10^6$

Sample Input 1

```
3 50 5 2
10 20 30
```

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Sample Output 1

Yes

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Explanation:

For at least one starting value (e.g., 10), it is possible through a sequence of operations (+ 5 and * 2) to reach the target 50.

Sample Input 2

```
4 100 10 3
5 15 25 35
```

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Sample Output 2

No

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Explanation:

None of the starting values can be transformed to reach the target 100 using the operations + 10 and * 3.

Sample Input 3

```
2 7 2 3
8 1
```

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Sample Output 3

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Yes

Explanation:

For at least one starting value (e.g., `1`), it is possible through a sequence of operations (`+ 2`, `+ 2` and `+ 2`) to reach the target `7`.

? Clarifications

[Request clarification](#)

No clarifications have been made at this time.