

# Creating Expression1

Input file:            **standard input**  
Output file:          **standard output**  
Time limit:          1 second  
Memory limit:        256 megabytes

Given two numbers  $N$ ,  $X$  and an array  $A$  of  $N$  numbers. Determine if there is a way to put '+' or '-' signs between every two numbers in the array  $A$  in order to make an expression that is equal to  $X$ .

**Note:** Solve this problem using recursion.

## Input

First line contains two numbers  $N$  and  $X$  ( $1 \leq N \leq 20, -10^9 \leq X \leq 10^9$ ).

Second line contains  $N$  distinct numbers  $A_1, A_2, \dots, A_N$  ( $1 \leq A_i \leq 10^5$ ).

## Output

Print "YES" if you can put '+' or '-' signs between every two number to create an expression that is equal to  $X$  otherwise, print "NO".

## Examples

standard input	standard output
5 5 1 2 3 4 5	YES
5 2 1 2 3 4 5	NO

## Note

In the first example: **1 - 2 - 3 + 4 + 5 = 5**