**Magic School**

Harry and his friends are students of a famous magic school. Unfortunately, they've scored very less marks in a test and want to use magic to increase their marks so that everyone's marks become equal to the initial maximum.

You are given an array A containing the marks of every student and a magic number B. Each magic operation can increase the marks of any student by exactly B points. Find out if B is a correct magic number to equalize everyone's marks using some number(possibly zero) of magic operations. Return 1 if it is and 0 if it is not.

**Problem Constraints**

\begin{aligned} 1 <= A.size() <= 1e5 \\ 1 <= A[i] <= 1e9 \\ 1 <= B <= 1e9 \\ \end{aligned}1<=*A*.*size*()<=1*e*51<=*A*[*i*]<=1*e*91<=*B*<=1*e*9​

**Input Format**

* The first argument is the integer array A.
* Seond argument is the integer B.

**Output Format**

* Return a single integer as per the given problem

**Example**

***Example Input***

Input 1:

A = [5 10 15 20 25]

B = 5

Input 2:

A = [1 1 1]

B = 9923

***Example Output***

Output 1:

1

Output 2:

1

***Example Explanation***

**Explanation 1:** Do the magic operation 4 times for A[0], 3 times for A[1], 2 times for A[2], and 1 time for A[3] to equalize everyone's marks

**Explanation 2:** 0 magic operations are needed to equalize everyone's marks. Hence, the answer is 1.