



Make Everything Equal

Problem

Submissions

Problem Statement

You are given an array A of positive integers of length n and a value k . You need to make all the array elements equal. For this, you can perform the below operation at most k times -

- You can change any value A_i (where $1 \leq i \leq n$) to any other positive integer.

If you can make all the array elements equal print **YES** otherwise print **NO**.

See the sample input output for more clarification.

Note: The input file is too large. Must use fast I/O and don't use endl. Use "\n" instead of endl.

Fast I/O: Add these 2 lines at the first of main function -

```
ios::sync_with_stdio(false);
cin.tie(NULL);
```

Input Format

- First line will contain T , the number of test cases.
- First line of each test case will contain n and k .
- Second line of each test case will contain the array a .

Constraints

- $1 \leq T \leq 100$
- $1 \leq n \leq 10^5$
- $1 \leq k \leq 10^5$
- $1 \leq A_i \leq 10^4$
- The sum of n over all test cases doesn't exceed 10^5

Output Format

- If you can make all the array elements equal print **YES** otherwise print **NO**.

Sample Input 0

```
5
6 4
8 21 8 16 8 16
```

```
5 3
6 15 19 11 7
6 3
13 19 21 21 11 13
5 6
8 9 21 16 13
7 2
13 7 17 13 16 7 20
```

Sample Output 0

```
YES
NO
NO
YES
NO
```

Explanation 0

- In the first test case we can change $A[2] = 8$, $A[4] = 8$ and $A[6] = 8$, hence the update array will be $[8, 8, 8, 8, 8]$ and we can see that all the elements of the array are equal and here we use 3 operation that's why the answer is YES. Besides, in the first test case we can also make all the elements equal to 16 by using 4 operation which is also correct.

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Contest ends in 1 hour 27 minutes 42 seconds

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C++



```
1 #include <map>
2 #include <set>
3 #include <list>
4 #include <cmath>
5 #include <ctime>
6 #include <deque>
7 #include <queue>
8 #include <stack>
9 #include <string>
10 #include <bitset>
11 #include <cstdio>
12 #include <limits>
13 #include <vector>
14 #include <climits>
15 #include <cstring>
16 #include <cstdlib>
17 #include <fstream>
18 #include <numeric>
19 #include <sstream>
20 #include <iostream>
21 #include <algorithm>
22 #include <unordered_map>
23
24 using namespace std;
25 int main() {
26     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
27     return 0;
```

28 }

Line: 1 Col: 1

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