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Can you divide that 🔒 locked

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Kalindu is shoolboy that just learned what factorials are. Since he loved mathematics and wanted to learn more, his older brother Malindu decided to gave him a challenge.

Malindu wrote down a bunch of numbers $A = [x_1, x_2, x_3, \ldots x_n]$ and gave Kalindu another number y. He challenged Kalindu to find out quickly whether the sum of the factorials of the numbers in A is divisible by the factorial of y

If it is divisible, print "yes". Otherwise print "no"

Input Format

the first line contains t, the number of testcases.
then there are t occurences of

- one line containing n and y (space seperated)

- one line containing $x_1\ x_2\ x_3\ \ldots\ x_n$ (space seperated)

Constraints

$1 \le x_i, y \le 100$

$1 \le t \le 1000$

$1 \le n \le 111111$

Output Format

t lines containing `yes` or `no`

Sample Input 0

```
2
2 5
7 7
7 5
4 2 1 7 5 4 3
```

Sample Output 0

```
yes
no
```

f 🐦 in

Submissions: 8
Max Score: 100

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C++ ⌄

```cpp
1  #include <cmath>
2  #include <cstdio>
3  #include <vector>
4  #include <iostream>
5  #include <algorithm>
6  using namespace std;
7
8
9  int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12  }
13
```

Line: 1 Col: 1

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