

Problem C. C

Time limit 1000 ms

Code length Limit 50000 B

OS Linux

In a test, there are N problems, each carrying X marks.

In each problem, Chef either received X marks or 0 marks.

Determine whether it is possible for Chef to achieve **exactly** Y marks.

Input Format

- The first line of input will contain a single integer T , denoting the number of test cases.
- Each test case consists of three integers N , X , and Y , the number of problems, the maximum score for each problem, and the score Chef wants.

Output Format

For each test case, output **YES** if Chef can achieve exactly Y marks, **NO** otherwise.

You can print each character of the string in uppercase or lowercase. For example, the strings **Yes**, **YES**, **yes**, and **yEs**, are all considered identical.

Constraints

- $1 \leq T \leq 100$
- $1 \leq N \leq 10$
- $1 \leq X \leq 10$
- $0 \leq Y \leq N \cdot X$

Sample 1

Input	Output
5 1 8 4 3 6 12 4 5 0 10 10 100 8 5 36	NO YES YES YES NO

****Test case 1:**** There is no way for Chef to score exactly 4 marks.

Test case 2: Chef can score 12 marks by receiving 6 marks in 2 problems and 0 marks in 1 problem.

Test case 3: Chef can score 0 marks by receiving 0 marks in each of the 4 problems.

Test case 4: Chef can score 100 marks by receiving 10 marks in each of the 10 problems.

Test case 5: There is no way for Chef to score exactly 36 marks.