

Read Pages

Difficulty Rating: 343

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Problem

Chef has started studying for the upcoming test. The textbook has N pages in total. Chef wants to read at most X pages a day for Y days.

Find out whether it is possible for Chef to complete the whole book.

Input Format

- The first line of input will contain a single integer T , denoting the number of test cases.
- The first and only line of each test case contains three space-separated integers N , X , and Y — the number of pages, the number of pages Chef can read in a day, and the number of days.

Output Format

For each test case, output on a new line, YES, if Chef can complete the whole book in given time, and NO otherwise.

You may print each character of the string in uppercase or lowercase. For example, Yes, YES, yes, and yES are all considered identical.

Constraints

- $1 \leq T \leq 1000$
- $1 \leq N \leq 100$
- $1 \leq X, Y \leq 10$

Sample 1:

Input	Output
4	YES

NODEJS

```
1 process.stdin.resume();
2 process.stdin.setEncoding('utf8');
3
4 // your code goes here
5 let input = '';
6 process.stdin.on('data', chunk => input += chunk);
7
8 process.stdin.on('end', () => {
9   const inputLines = input.split('\n');
10  const T = parseInt(inputLines[0]);
11  inputLines.shift();
12  for (let i = 0; i < T; i++){
13    const numsInString = inputLines[i].split(' ');
14    const [N,X,Y] = [parseInt(numsInString[0]), parseInt(numsInString[1]), parseInt(numsInString[2])];
15    if(X*Y < N){
16      console.log('NO')
17    } else {
18      console.log('YES')
19    }
20  }
21 });
22
```

Test against Custom Input

10 3 3
7 7 1
3 2 1

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FeverDifficulty Rating: 348Expand

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For each test case, output YES if Chef has fever. Otherwise, output NO.

You may print each character of YES and NO in uppercase or lowercase (for example, yes, yEs, Yes will be considered identical).

Constraints

- $1 \leq T \leq 10$
- $94 \leq X \leq 103$

Sample 1:

Input	Output
3	NO
98	YES
100	NO
96	

Explanation:
Test Case 1: Since $X = 98$ is not greater than 98, Chef does not have fever.
Test Case 2: Since $X = 100$ is greater than 98, Chef has fever.
Test Case 3: Since $X = 96$ is not greater than 98, Chef does not have fever.

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NODEJS

```
1 process.stdin.resume();
2 process.stdin.setEncoding('utf8');
3
4 // your code goes here
5 let input = '';
6 process.stdin.on('data', chunk => input += chunk);
7
8 process.stdin.on('end', () => {
9     const FEVER_THRESHOLD = 98;
10    const inputLines = input.split('\n');
11    const TestCases = parseInt(inputLines[0], 10);
12    inputLines.shift()
13    for (let i = 0; i < TestCases; i++){
14        const temperature = parseInt(inputLines[i], 10);
15        if (temperature > FEVER_THRESHOLD){
16            console.log('YES')
17        } else {
18            console.log('NO')
19        }
20    }
21 });
22
23
```

Test against Custom Input

3
98
100
96

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Sleep deprivationDifficulty Rating: 348Expand

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Problem

A person is said to be sleep deprived if he slept **strictly less than 7** hours in a day.

Chef was only able to sleep X hours yesterday. Determine if he is sleep deprived or not.

Input Format

- The first line contains a single integer T — the number of test cases. Then the test cases follow.
- The first and only line of each test case contains one integer X — the number of hours Chef slept.

Output Format

For each test case, output YES if Chef is sleep-deprived. Otherwise, output NO.

You may print each character of YES and NO in uppercase or lowercase (for example, yes, yEs, Yes will be considered identical).

Constraints

- $1 \leq T \leq 20$
- $1 \leq X \leq 15$

Sample 1:

Input	Output
3	YES
4	NO
7	NO
10	

NODEJS

```
1 process.stdin.resume();
2 process.stdin.setEncoding('utf8');
3
4 // your code goes here
5 let input = '';
6 process.stdin.on('data', chunk => input += chunk);
7
8 process.stdin.on('end', () => {
9     const SLEEP_THRESHOLD = 7;
10    const inputLines = input.split('\n');
11    const TestCases = parseInt(inputLines[0], 10);
12    inputLines.shift();
13    for (let i = 0; i < TestCases; i++){
14        const hoursSlept = parseInt(inputLines[i], 10);
15        if (hoursSlept >= SLEEP_THRESHOLD){
16            console.log('NO')
17        } else {
18            console.log('YES')
19        }
20    }
21 });
22
23
```

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Test against Custom Input

4
7
10

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MATH1 EnrolmentDifficulty Rating: 349ExpandPrev ProblemNext Problem

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the upcoming semester, respectively.

Output Format

For each test case, output on a new line the **minimum** number of seats required to be added.

Constraints

- $1 \leq T \leq 100$
- $1 \leq X, Y \leq 10^5$

Sample 1:

Input	Output
4	0
1 1	22
12 34	0
50 49	1
49 50	

Explanation:

Test case 1: Exactly 1 seat is available for enrolment, and exactly 1 student is interested in taking up the course, hence addition of more seats is not required.

Test case 2: 12 seats are available for enrolment but 34 students are interested in taking up the course, hence the admins would have to add $34 - 12 = 22$ more seats to make sure that every student interested in the course gets a seat.

Test case 3: 50 seats are available for enrolment and 49 students are interested in taking up the course, hence addition of more seats is not required.

Test case 4: 49 seats are available for enrolment, but 50 students are interested in taking up the course, hence the admins would have to add $50 - 49 = 1$ more seat to make sure that every student

NODEJS

```
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3
4 // your code goes here
5 let input = '';
6 process.stdin.on('data', chunk => input += chunk);
7
8 process.stdin.on('end', () => {
9     const inputLines = input.split('\n');
10    const TestCases = parseInt(inputLines[0], 10);
11    inputLines.shift();
12    for (let i = 0; i < TestCases; i++) {
13        const numsInStr = inputLines[i].split(' ');
14        const [seats, interestedStudents] = [parseInt(numsInStr[0]), parseInt(numsInStr[1])]
15        if (interestedStudents > seats) {
16            console.log(Math.abs(seats - interestedStudents))
17        } else {
18            console.log(0)
19        }
20    }
21 });
22
23
```

Test against Custom Input

4
1 1
12 34
50 49

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