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Running Loop

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Problem

Submissions

Leaderboard

Discussions

Alguru goes running every evening , he chooses a new area to run through every time but some areas contain cycles and Alguru always gets lost in those cycles. Alguru needs your help to choose a safe area so that he does not get lost. An area is safe if does not contain any cycles. You will be given the description of an area and you will have to determine whether it is safe or not. Each area is described by places in the area and whether there is a path between any two places.

Input Format

The first line of the input contains a single integer T representing the number of testcases. The first line of each testcase contains 2 space-separated integers N,M .N represents the number of places in the area and the following M lines contains 2 space-separated integers A,B which represents there is a path between place A and B

Constraints

- $1 \leq T \leq 5$
- $2 \leq N \leq 1000$
- $1 \leq M \leq 10^5$
- $0 \leq A, B \leq N-1$

Output Format

For each testcase print a single line - safe - if area is safe else print unsafe

Sample Input 0

```
2
3 3
0 1
1 2
2 0
2 1
0 1
```

Sample Output 0

```
unsafe
safe
```

Explanation 0

The first area contains a cycle place0->place1->place2->place0 and hence it is not safe. The second area does not contain any cycles and hence is safe.

Contest ends in 7 hours

Submissions: 15

Max Score: 14

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Current Buffer (saved locally, editable)

C++14

```
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

[Upload Code as File](#) ☐ Test against custom input

Run Code

Submit Code