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I Can Guess the Data Structure!

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There is a bag-like data structure, supporting two operations:

Throw an element x into the bag.

2

Take out an element from the bag.

Given a sequence of operations with return values, you're going to guess the data structure. It is a stack (Last-In, First-Out), a queue (First-In, First-Out), a priority-queue (Always take out larger elements first) or something else that you can hardly imagine!

Input

There are several test cases. Each test case begins with a line containing a single integer n (1 <= n <= 1000). Each of the next n lines is either a type-1 command, or an integer 2 followed by an integer x. That means after executing a type-2 command, we get an element \mathbf{x} without error. The value of \mathbf{x} is always a positive integer not larger than 100. The input is terminated by end-of-file (EOF). The size of input file does not exceed 1MB.

Output

For each test case, output one of the following:

It's definitely a stack.

queue

It's definitely a queue.

priority queue

It's definitely a priority queue.

impossible

It can't be a stack, a queue or a priority queue.

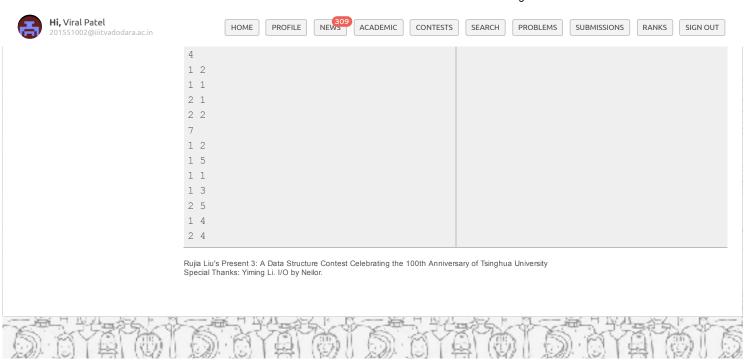
not sure

It can be more than one of the three data structures mentioned above.

Sample Input	Sample Output
6	queue
1 1	not sure
1 2	impossible
1 3	stack
2 1	priority queue
2 2	
2 3	
6	
1 1	
1 2	
1 3	
2 3	
2 2	

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