COSC 121 – Assignment #2

Task:

Ken's office hours are getting really full, and a long line is forming outside his office each time. The students decide that they are too smart to simply line up, and decide on implementing a system.

The system is a queue, but with some weird exceptions. When a student joins the back of the line, if they are younger or if their grade is lower than the person in front of them they can move up 1 spot, but only 1 spot.

Input

If a student is joining the line, the input format is the student's first name then a space then their age, then a space, then their grade.

When Ken helps the next student in line, removing them from the queue, the input is *next*.

When the input is done, the input is *end*.

Output

The output will be the order of the students currently in line. If the queue is empty, output the word *empty*.

Example Input

Taylor 23 98
Christian 17 100
Brett 65 87
Bryce 21 86
next
Shane 32 99
Tasha 22 95
end

Example Output

Brett 65 87 Bryce 21 86 Taylor 23 98 Tasha 22 95 Shane 32 99

Submission

- 1. Test and submit your Java code on: https://www.hackerrank.com/lab2-1579133334
- 2. Submit your source code files (the files with extension .java) on the Moodle Lab 2 folder.