Before attempting the problem, you are **required** to thoroughly read the reference material - https://www.hackerearth.com/practice/data-structures/stacks/basics-of-stacks/tutorial/.

Statement

You are a manager at a restaurant that serves food packages. Each package has a associated cost. The packages are piled up next to the manager. The manager has to handle two types of requests.

Customer When a customer demands a package, the package on the top of the pile is given out and he/she is charged the cost of the package. This reduces the height of the pile by 1. In case the pile is empty, the customer goes away empty-handed.

Chef A chef prepares a food package and adds it to the top of the pile, and reports the cost to the manager.

Input

The first line contains an integer R, the number of requests that follow. A customer request is indicated by an integer 1 in the line. A chef request is indicated by two space-separated integers 2 and C, the cost of the package.

Output

For each customer query, output the price the customer has to pay (the cost of the package) on a new line. If the pile is empty, output "No food" (without the quotes).

Constraints

- $1 \leq Q \leq 10^5$
- $1 \leq C \leq 10^7$

Sample

Sample Input	Sample Output
6 1 2 5 2 7 2 9 1 1	No food 9 7