Daily Chores of Bu Aya

Time Limit: 1 s
Memory Limit: 256 MB

Description

Bu Aya is a housewife of Pak Aya. She do daily chores at home, but here's a catch. Bu Aya only have a certain amount of energy to do the chores. Bu Aya decided to prioritize doing the chore with the lowest priority first, so she can do more chores. Given the amount of energy Bu Aya has, and a list of task she needs to do, find what chores Bu Aya has to do

Input Format

- The first line contains three integers, e, and n. e being the amount of energy and n is the number of chores Bu Aya has
- The next n lines will contain i and s, i is the priority and s is a string that represents the task name.

Output Format

If Bu Aya can do atleast one chores, print the name s. If more, print all of them from the lowest to the highest score. Otherwise, print `Pak Aya will do the rest`

Constraints

$1 \leq e, n, i \leq 1000$
$strlen(s) \leq 64$

Example

#0

Input
10 5 3 menyapu_rumah 2 mencuci_piring 5 memasak 8 mencuci_pakaian 1 makan
Output
makan mencuci_piring menyapu_rumah

#1

Input
5 3 7 memasak 9 mencuci_piring 6 makan
Output
Pak Aya will do the rest