

Problem E: Galactic Studio

Filename: `galactic`

Time limit: 1 second

You are planning a trip to a local amusement park, Galactic Studio: Atoll of Intrigue. However, before finalizing the tickets, you want to make sure that you are choosing the amusement park with the greatest number of attractions. Since there are many amusement parks in the Orlando area, it is impossible to find information about exactly how many attractions each park has up front. Instead, you will need to find which theme park has the most attractions using only a series of updates to the total number of attractions at each park.

Problem

Given a series of updates to the number of attractions at named amusement parks, find and output the name of the park with the greatest number of attractions. It is guaranteed that there is a single unique park with the greatest number of attractions.

Input

Input will begin with a single integer, **c**, representing the number of test cases that follow.

Each test case begins with a single integer, **u**, representing the number of updates that follow. The following **u** lines each contain a string, **n**, consisting of 15 or fewer ASCII uppercase or lowercase english letters ([a-z] or [A-Z]), followed by a single integer **a**, indicating the number of attractions newly found at the amusement park named **n**. That is, if amusement park **n** had been seen before, there are **a** additional attractions located at amusement park **n**, and if amusement park **n** had not been seen before then there are **a** attractions at amusement park **n**, unless later queries add to the number of attractions at amusement park **n**.

Output

For each test case, output a single line containing the name of the amusement park with the greatest number of attractions.

Input Bounds and Corresponding Credit

100 Points
<ul style="list-style-type: none">• $1 \leq c \leq 15$• $1 \leq u \leq 10,000$• $1 \leq a \leq 10,000$

Samples

Input	Output
1	Galactic
5	
Galactic 4	
Disnay 5	
OceanPlanet 3	
Galactic 3	
Disnay 1	