Problem B: Programming Elections

The school year has just begun, and your programming team needs to hold elections for their two new co-presidents, one boy and one girl. After the elections occur and the votes are tallied, you have a list of the candidates and how many votes they received. Who won the election?

**Input:**

The first line of the input provides the number of test cases, **T** (1 ≤ **T** ≤ 100). **T** test cases follow. The first line of each test case contains an integer **N** (1 ≤ **N** ≤ 1000), the number of students running for co-president. 3\***N** lines follow (3 for each student), the first of which contains the student’s name, the second of which contains ‘M’ or ‘F’, their gender, and the last contains an integer **V** (1 ≤ **V** ≤ 1000), the number of votes they receive.

Note: No two students will have the same number of votes, and there will be at least one boy and one girl.

**Output:**

For each test case, output one line containing the name of the female co-president and male co-president, separated by a space.

**Sample Input:**

1

3

Alice

F

5

Bob

M

7

Charles

M

6

**Sample Output:**

Alice Bob