

COMP2611/COMP2000 – Data Structures
Semester 3, 2017-2018
Assignment 2

Teams

Due: 11.55 p.m., June 23rd, 2018

Write a program to read data about persons who belong to certain teams and determine the members of each team.

Data for the program consists of lines of input. Each line contains one or more distinct one-word names, all of whom belong to the same team. You may assume that names consist of letters only, upper or lowercase, and are separated by one or more blanks. For our purposes, the names `john`, `JOHN`, `jOhN` and `JohN` all refer to the same person and should be output as `John` (first letter uppercase, the rest lowercase). Assume that no name contains more than 20 letters.

The data structure must be organized such that, given any name, all his/her team members can be quickly found. A name can appear on more than one line. If a name appears on more than one line then all names on those lines belong to the same team.

After all the data has been read, print a listing of the teams as in the sample below. Team *members* must be listed in alphabetical order. The *teams* are listed in order by the first names of each team. For example, a team with `Janet` as the first name (in alphabetical order) will be listed before a team with `Lovette` as the first name.

Sample input

```
ConRad peter BETTY connie
Richard leonard Davindra
Kelvin kade
Rebecca
Kerron Kade Kamal
Lincia Indra angela JennifeR
```

Sample output

```
Team 1
Angela Indra Jennifer Lincia

Team 2
Betty Connie Conrad Peter

Team 3
Davindra Leonard Richard

Team 4
Kade Kamal Kelvin Kerron

Team 5
Rebecca
```