# Teamwork projects

It's time for teamwork projects and you are responsible for making the teams. First you will receive an integer - the **count** of the teams you will have to **register**. You will be given a **user** and a **team** (separated with “-”). The user is the **creator** of that team.

For every newly created team you should **print** a message:

"Team {team Name} has been created by {user}!".

Next you will receive user with team (separated with "*->*") which means that the user wants to **join** that **team**. Upon receiving the command: “end of assignment”, you should print **every team**, **ordered** by the **count** of its **members** (**descending**) and then by **name** (**ascending**). For each team (disband teams as well), you have to print its members **sorted** by name (**ascending**). However, there are several **rules**:

* If user tries to **create** a team more than once a message should be displayed:
  + "Team {teamName} was already created!*"*
* Creator of a team cannot **create** another team - message should be thrown:
  + "{user} cannot create another team!"
* If user tries to **join** currently non-existing team a message should be displayed:
  + "Team {teamName} does not exist!*"*
* Member of a team cannot **join** another team - message should be thrown:
  + "Member {user} cannot join team {team Name}!"
* In the **end** (*after teams' report*) teams with **zero** members (with **only a creator**) should **disband ordered by name in ascending other**.
* Every **valid** team should be printed ordered by **name** (ascending) in this format:

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| --- |
| "{teamName}:  - {creator}  -- {member}…" |

### Examples

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| **Input** | **Output** | **Comments** |
| 2  Didi-PowerPuffsCoders  Toni-Toni is the best  Petq->PowerPuffsCoders  Toni->Toni is the best  end of assignment | Team PowerPuffsCoders has been created by Didi!  Team Toni is the best has been created by Toni!  Member Toni cannot join team Toni is the best!  PowerPuffsCoders  - Didi  -- Petq  Teams to disband:  Toni is the best | Toni created a team in which he tried later to join. So message was shown. Since there is no one other who is trying to join his team the team have to **disband**. |
| 3  Tatyana-CloneClub  Helena-CloneClub  Trifon-AiNaBira  Pesho->aiNaBira  Pesho->AiNaBira  Tatyana->Leda  PeshO->AiNaBira  Cossima->CloneClub  end of assignment | Team CloneClub has been created by Tatyana!  Team CloneClub was already created!  Team AiNaBira has been created by Trifon!  Team aiNaBira does not exist!  Team Leda does not exist!  AiNaBira  - Trifon  -- Pesho  -- PeshO  CloneClub  - Tatyana  -- Cossima  Teams to disband: | Note that when you join a team you should check **first** if it exists, **then** check if the user is already in a team:  Tatyana has created CloneClub, then she tries to join a non-existing team – so message for non-existing team is shown. |