**Registration**

Create a program, that **checks** if **registrations** are **valid**. A registration consists of a **Username** and a **Password.** On the **first** line you will **receive** a **number** that **indicates** how **many** **inputs** you will **receive** on the **next** lines**.**

A registration is **valid** when:

* The username is surrounded by **"U$"**
* The username needs to be **minimum 3** characters long, **start** with an **uppercase** letter, **followed** **only** by **lowercase** letters
* The password is surrounded by "**P@$"**
* The password needs to start with **minimum 5** alphabetical letters **(not including digits)** and must end with **a digit**

**Example for a valid registration:**

**"U$MichaelU$P@$asdqwe123P@$"**

You must **check** if the **registration** is **valid** and if it **is** print:

**"Registration was successful"**

**"Username: {Username}, Password: {Password}"**

If it **isn’t** - **print** the following **message**:

**"Invalid username or password"**

In the end print the count of successful registrations:

**"Successful registrations: {successfulRegistrationsCount}"**

**Input**

* On the **first** line - **n** - the count of inputs.
* On the **next** **n** lines - **input** that you have to **check** if it has a **valid** **registration**.

**Output**

* Print all **results from each input**, **each on a new line**.
* In the end print the count of successful registrations

**Examples**

|  |  |  |
| --- | --- | --- |
| **Input** | **Output** | **Comment** |
| 3  U$MichaelU$P@$asdqwe123P@$  U$NameU$P@$PasswordP@$  U$UserU$P@$ad2P@$ | Registration was successful  Username: Michael, Password: asdqwe123  Invalid username or password  Invalid username or password  Successful registrations: 1 | We have **3** **input** lines to **check**. The **first** one **follows** the **rules** and **is** **valid**. The **second** one **doesn’t** because the password doesn’t end with a digit. The **third** one is **not** valid because the password is too short. |
| 2  U$TommyU$P@$asdqwe123P@$  Sara 1232412 | Registration was successful  Username: Tommy, Password: asdqwe123  Invalid username or password  Successful registrations: 1 |  |