Problem 2 - Boss Rush

Create a program that **checks** if **inputs** are **valid**. On the **first** line, you will **receive** a **number** that **indicates** how **many inputs** you will **receive** on the **following** lines.

You will read lines with a boss name and title, and you should check if they are valid, considering the following rules:

- **Boss** - the name should be
    - In upper case letters
    - Minimum **four letters long**
    - Surrounded by "**|**"
- **Title** – should:
    - It contains **exactly 2 words,** and they **contain** only alphabetical letters and **1 whitespace** between them.
    - Surrounded by "**#**"
- The name and title **should be split by a** single "**:**"

Example for a valid input: |GEORGI|:#Lead architect#

If the input is valid. Print in the following format:

```
"{boss name}, The {title}
>> Strength: {length of the name}
>> Armor: {length of the title}"
```

If the input is invalid, print **"Access denied!"**

Input / Constraints

- On the **1ˢᵗ line**, you will receive the **number** of inputs.
- On the following **n lines**, you will have to **check** if a boss has a **valid name and title**.

Output

- **Print** the **output** with the **format described above.**

Examples

Input	Output
3 |PETER|:#Lead architect# |GEORGE|:#High Overseer# |ALEX|:#Assistant Game Developer#	PETER, The Lead architect >> Strength: 5 >> Armor: 14 GEORGE, The High Overseer >> Strength: 6 >> Armor: 13 Access denied!
3 |STEFAN|:#H1gh Overseer# |IVAN|:#Master detective# |KARL|: #Marketing lead#	Access denied! IVAN, The Master detective >> Strength: 4 >> Armor: 16 Access denied!

JS Examples

Input	Output
(['3', '|PETER|:#Lead architect#', '|GEORGE|:#High Overseer#', '|ALEX|:#Assistant Game Developer#'])	PETER, The Lead architect >> Strength: 5 >> Armor: 14 GEORGE, The High Overseer >> Strength: 6 >> Armor: 13 Access denied!
(['3', '|STEFAN|:#H1gh Overseer#', '|IVAN|:#Master detective#', '|KARL|: #Marketing lead#'])	Access denied! IVAN, The Master detective >> Strength: 4 >> Armor: 16 Access denied!