# Problem 3 – Royal Flush

Royal likes to play poker very much, and he is really good at it too. But he doesn’t the rules so he needs some help.

You will be given **n** – an integer. On the next **n** lines you will receive strings of random amounts of random card characters - Royal’s poker cards. You need to see if any combination of the cards successfully forms a Royal Flush hand (10-J-Q-K-A). The cards will be ranked: **2**, **3**… **10**, **J**, **Q**, **K**, **A**, and will have suits: **c**, **d**, **h**, **s**, which go for **clubs, diamonds, hearts** and **spades.** The Royal Flush combination cards might not be placed next to each other, and on the same line, but they need to be in the correct order (**10 – A**) and of the same suit to form it.

If there is a card that doesn’t follow the **rank** order but the suit is different, it doesn’t break the combination. If there is a card of the same suit however and does **NOT** follow the rank order, it breaks the current combination, and makes it **invalid**.

When Royal gets a Royal Flush you should print “Royal Flush Found – {Suit}”, where suit is the suit of the current combination.

### Input

* The first line of input will hold an integer **n.**
* On the next **n** lines of input you will receive strings holding sequences of cards.

### Output

* Every time you find a Royal Flush, you must print “Royal Flush Found – {Suit}”. See the examples below.
* At the end you must print how many Royal Flushes you’ve found – “Royal’s Royal Flushes – {count}”.

### Constraints

* The lines with strings will **always** consist **only** of cards and suits.
* The integer **n** will be in the range of [1, 1000].
* Allowed time/memory: 100ms/16MB

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| **Input** | **Output** |
| 3  2s3s4s5s6s7s8s9s10sJsQsKs  As10dJdQd  KdAd | Royal Flush Found – Spades  Royal Flush Found – Diamonds  Royal’s Royal Flushes – 2. |

|  |  |
| --- | --- |
| **Input** | **Output** |
| 2  2s10s10dJsQsJdKsQdAsKdAd  10sJsQdQsKs10cAsJcQcQcKcAc | Royal Flush Found – Spades  Royal Flush Found – Diamonds  Royal Flush Found – Spades  Royal’s Royal Flushes – 3. |