



Army Lunch

Java May'19 DSA Final - 1 day 02:59:23

Being in the army is something one needs to get used to. First days are always harsh and Tommy, the new private, learns it fast. First rule when going for lunch, for example, is that good stuff are not enough for everyone and, considering this, there is a certain order to get in the cafeteria. First go for a bite sergeants. When they finish, lunch can grab corporals and then are the privates.

Before deciding to fight for his country Tommy used to work as Java developer. Now he's going to use his skills to save time for himself and other privates and write a program to determine the order of people having lunch.

There are solders :

P, C, S, S, C, P

they will have lunch in the following order:

S, S, C, C, P, P

given that **S** means a Sergeant, **C** is a Corporal, and **P** is a Private.

Input

- Use the standard input
- On the first line you will find the number **N** - the number of solders
- On the second line you will find exactly **N** solders that are about to get lunch:
 - **S** means a Sergeant
 - **C** is a Corporal
 - **P** is a Private

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✓ **Points:** 100
(partial)
⌚ **Time limit:** 0.25s
Java: 0.5s
JavaScript: 0.1s
📄 **Memory limit:**
32M
Java: 32M
JavaScript: 32M
✍ **Author:**
[donchominkov](#)

🏷 **Tags**
Linear Data
Structures
⬆ **Difficulty**
Intermediate

▼ **Allowed
languages**
java



- On the only line, print the correct sequence of solders that will go in the cateteria:
 - Print each solder
 - Different solders are separated by a single space

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Constraints

- $0 < N < 100\ 000$

Sample Tests

Input

```
3
S1 C1 P1
```

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Output

```
S1 C1 P1
```

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Description

The sequence does not change, because they are already in the correct order

Input

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Output

```
S1 C2 C1 P4 P2 P3 P1
```

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Description

- **S1** is Sergeant, so he can get lunch first
- **C2** can choose meal after **S1**, before all privates and because he came first, before **C1**
- **C1** can choose meal after **S1**, before all privates and after **C2**
- The **privates** eat in the order they appear

? Clarifications

No clarifications have been made at this time.