

Problem 15 : Is it a good team?

Statement

A group of 16 people from the Survey Corps has been assigned to transport Princess **Historia** and Eren to a safer place. The plan is to divide the group into four teams: A team picks up Historia and Eren's wagon, a team is guarding it , another team transporting **Armin** disguised as **Historia** in a different wagon, the last team is guarding them from afar. Each team has a leader who is a sub-organizer of the process. To ensure a successful process we want to make sure that good teams are built, which must respect the following criterias:

- We have 1 general organizer, 4 sub-organizers, and 11 regular members.
- For the 4 sub-organizers:
 - A sub-organizer is responsible for a sub group.
 - Each sub-organizer is a Team leader if the number of team leaders is odd, else is a regular squad member.
- For the 1 organizer:
 - Is a Team leader if the number of team leaders is odd, else is a regular squad member.

The Goal is to tell if the group is a good group:

- If it's a good group, the return value is : 0.
- If it isn't, the return value should be the position that we should change.
- If the error is in the `x[0]`, the returned value will also be 0.

Input

S String of 16 chars.

Output

$n : [0, 15]$

• S^1 :

| | | | |
|-------|-------|-------|-----|
| O | S^1 | S^2 | d |
| S^3 | d | d | d |
| S^4 | d | d | d |
| d | d | d | d |

• S^2 :

| | | | |
|-------|-------|-------|-----|
| O | S^1 | S^2 | x |
| S^3 | x | d | x |
| S^4 | x | d | x |
| d | x | d | x |

• S^3 :

| | | | |
|-------|-------|-------|-----|
| O | S^1 | S^2 | d |
| S^3 | x | x | x |
| S^4 | d | d | d |
| x | x | x | x |

• S⁴:

| | | | |
|-----------------------|-----------------------|-----------------------|----------|
| <i>O</i> | <i>S</i> ¹ | <i>S</i> ² | <i>d</i> |
| <i>S</i> ³ | <i>d</i> | <i>d</i> | <i>d</i> |
| <i>S</i> ⁴ | <i>x</i> | <i>x</i> | <i>x</i> |
| <i>x</i> | <i>x</i> | <i>x</i> | <i>x</i> |

O : organizer
S : sub – organizer
x : sub – group
d : anyperson(teamleaderorsquad)

Example

| Input | Output |
|----------------|--------|
| mmmmmmmmmmmmmm | 10 |