## Problem 2 - The Lift

Problem for exam preparation for the [Programming Fundamentals Course @SoftUni](https://softuni.bg/courses/programming-fundamentals-csharp-java-js-python).

Submit your solutions in the SoftUni judge system at [https://judge.softuni.org/Contests/Practice/Index/2517#1](https://judge.softuni.org/Contests/Practice/Index/2517" \l "1).

Write a program that **finds a place for the tourist on a lift.**

Every wagon should have **a maximum of 4 people on it**. If a wagon is full, you should direct the people to **the next one with space** available.

### Input

* **On the first line,** you will receive **how many people** are waiting to get **on the lift**
* **On the second line**, you will receive the **current state of the lift separated by a single space:** **" "**.

### Output

**When there is no more available space left on the lift**, or there are **no more people in the queue**, you should print on the console the final state of the lift's wagons separated by **" "** and one of the following messages:

* If there are no more people and the lift have empty spots, you should print:

**"The lift has empty spots!**

**{wagons separated by ' '}"**

* If there are still people in the queue and no more available space, you should print:

**"There isn't enough space! {people} people in a queue!**

**{wagons separated by ' '}"**

* If the lift is full and there are no more people in the queue, you should print only the wagons separated by **" "**

### Examples

|  |  |
| --- | --- |
| **Input** | **Output** |
| 15  0 0 0 0 | The lift has empty spots!  4 4 4 3 |
| **Comment** | |
| First state - 4 0 0 0 -> 11 people left  Second state – 4 4 0 0 -> 7 people left  Third state – 4 4 4 0 -> 3 people left | |
| **Input** | **Output** |
| 20  0 2 0 | There isn't enough space! 10 people in a queue!  4 4 4 |
| **Comment** | |
| First state - 4 2 0 -> 16 people left  Second state – 4 4 0 -> 14 people left  Third state – 4 4 4 -> 10 people left, but there're no more wagons. | |