**Lab: Exceptions and Error Handling Lab**

Problems for exercise and homework for the ["C# OOP" course @ SoftUni"](https://softuni.bg/trainings/3585/csharp-oop-february-2022).

You can check your solutions here: [https://judge.softuni.org/Contests/3324/Exceptions-and-E HYPERLINK "https://judge.softuni.org/Contests/3324/Exceptions-and-Error-Handling-Lab"r HYPERLINK "https://judge.softuni.org/Contests/3324/Exceptions-and-Error-Handling-Lab"ror-Handling-Lab](https://judge.softuni.org/Contests/3324/Exceptions-and-Error-Handling-Lab)

* **Play Catch**

You will receive on the **first** line an **array** of **integers**. After that you will receive **commands**, which should **manipulate** the array:

* **"Replace {index} {element}"** – **Replace** the element at the given **index** with the given **element**.
* **"Print {startIndex} {endIndex}"** – **Print** the elements from the **start** index to the **end** index **inclusive**.
* **"Show {index}"** – **Print** the element at the **index**.

You have the task to **rewrite** the **messages** from the **exceptions** which can be **produced** from your **program**:

* If you receive an **index**, which does **not** **exist** in the **array** print:  
  **"The index does not exist!"**
* If you receive a **variable**, which is of **invalid** **type**:  
  **"The variable is not in the correct format!"**

When you catch **3** exceptions – **stop** the **input** and **print** the **elements** of the array separated with **", "**.

**Examples**

|  |  |
| --- | --- |
| **Input** | **Output** |
| **1 2 3 4 5**  Replace 1 9  Replace 6 3  Show 3  Show peter  Show 6 | The index does not exist!  4  The variable is not in the correct format!  The index does not exist!  1, 9, 3, 4, 5 |
| 1 2 3 4 5  Replace 3 9  Print 1 4  Print -3 12  Print 1 5  Show 3  Show 12.3 | 2, 3, 9, 5  The index does not exist!  The index does not exist!  9  The variable is not in the correct format!  1, 2, 3, 9, 5 |

**Constraints**

* The **elements** of the array will be in **integers** in the interval **[-2147483648…2147483647]**
* You will always receive a **valid** string for the **first** part of the **command**, but the **parameters** might be **invalid**
* In the “**Print**”command always be true **startIndex <= endIndex**
* You will always **receive** at least **3** exceptions