* Input a text in the console.
* Check if the text contains only sorted digits (from lowest to highest values)
* If so, write SORTED, otherwise write NOT SORTED

1. What will be the **result** for these outputs?

|  |  |
| --- | --- |
| **Input** | **Output** |
| 489 | SORTED |
| 4762 | NOT SORTED |
| 12 | SORTED |
| 1268 | SORTED |
| 1896 | NOT SORTED |
| 1536 | NOT SORTED |
| 2789 | SORTED |

1. How many parts can you divide the problem into? Individual work.
2. Create the flowchart structure of your algorithm. Team (3 students) work.
3. Implement your code. Team (3 students) work.
4. Execute it in a table of execution. Team (3 students) work.

* Input a text in the console.
* Control that the text is owning only "abc" pattern.
  + Print “OK” if so
  + Otherwise, print “WRONG”

1. What will be the **result** for these outputs?

|  |  |
| --- | --- |
| **Input** | **Output** |
| abcd | WRONG |
| abcabc | OK |
| abc | OK |
| aabc | WRONG |
| abbc | WRONG |
| abcabcab | WRONG |
| abcdefg | WORING |

1. Create your flowchart structure with black boxes.

* Each student has to create his own.
* Share the result in group of 3.

1. Implement it in Python. In group of 3.
2. Fill up the execution table. In group of 3.

|  |  |  |  |
| --- | --- | --- | --- |
| Step | Variable 1 | Variable 2 | Variable 3 |
| 1 |  |  |  |
| 2 |  |  |  |
| … |  |  |  |

1. Present your flowchart structure to the class. In group of 3.

* Input a text in the console.
* Check that the text:
  + Has only *y*, between square brackets (need open AND close brackets).
  + Otherwise has *x*
* If the text is correct
  + Print “OK”
  + Otherwise, print “WRONG”

1. What will be the **result** for these outputs? Individual work

|  |  |
| --- | --- |
| **Input** | **Output** |
| xxx[yyy]xxx | Ok |
| [yyy]xxx | OK |
| xxx[yyy | WRONG |
| xxxy | WRONG |
| [yy] | WRONG |
| xxx[yxyy]xxx | WRONG |
| xxxxx | WRONG |

1. Which main instruction can solve the problem? What will it be used for? Group of 3 students.
2. Create a code to solve this problem. Group of 3 students.
3. Present your solution to the class. Group of 3 students.