**DESCRIPTION**        SOLUTIONS 30462        COMMENTS 112        ❯        CODEWRITING        SCORE: 300/300

After they became famous, the CodeBots all decided to move to a new building and live together. The building is represented by a rectangular `matrix` of rooms. Each cell in the `matrix` contains an integer that represents the price of the room. Some rooms are *free* (their cost is `0`), but that's probably because they are haunted, so all the bots are afraid of them. That is why any room that is *free* or is located **anywhere below** a *free* room in the same column is not considered suitable for the bots to live in.

Help the bots calculate the total price of all the rooms that are suitable for them.

**Example**

- For

```
matrix = [[0, 1, 1, 2],
          [0, 5, 0, 0],
          [2, 0, 3, 3]]
```

the output should be

`matrixElementsSum(matrix) = 9`.

Here's the rooms matrix with unsuitable rooms marked with `'x'`:

```
[[x, 1, 1, 2],
 [x, 5, x, x],
 [x, x, x, x]]
```

Thus, the answer is `1 + 5 + 1 + 2 = 9`.

- For

```
matrix = [[1, 1, 1, 0],
          [0, 5, 0, 1],
          [2, 1, 3, 10]]
```

the output should be

`matrixElementsSum(matrix) = 9`.

Here's the rooms matrix with unsuitable rooms marked with `'x'`:

👍  👎  🚩