Part 1:

Given the following test suite and matrix that shows the statements covered by each test case, what is the **prioritized test order** that will be obtained when these two prioritization criteria are applied

(a) total statement coverage

(b) additional statement coverage

You can break ties by randomly selecting between the tied test cases.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Test cases** | **Statements covered** | | | | | | |
| **s1** | **s2** | **s3** | **s4** | **s5** | **s6** | **s7** |
| **t1 = 4** | x |  | x | x | x |  |  |
| **t2 = 2** |  |  |  |  |  | x | x |
| **t3 = 3** | x |  | x |  |  | x |  |
| **t4 = 3** |  | X | x | x |  |  |  |
| **t5 = 2** | x |  |  |  | x |  |  |

Part 2:

* + <https://dzone.com/articles/what-is-regression-testing-best-practices-tutorial>

Can you think of other ways in which to prioritize test cases for regression testing? Write down two ways that you can think of.