Consider the sprint task #23 – validate the input data before executing the algorithm

Some of the test cases for this task are as follows:

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| --- | --- | --- | --- |
| Test case #sprint 23 | Scenario | Inputs | Expect Output |
| 1 | Choose the free form algorithm and user click the run button | Environment configuration file whose content is in correct format with the number of agents is no more than ceil(n/2) in each region | the algorithm executes correctly |
| 2 | Choose the free form algorithm and user click the run button | Environment configuration file whose content is in correct format with the number of agents is more than ceil(n/2) in each region | Prompt error message |
| 3 | Choose the free form algorithm and user click the run button | Environment configuration file whose content is in incorrect format | Prompt data format is wrong |
| 4 | Choose the constrained3 algorithm and user click the run button | Environment configuration file whose content is in correct format with the number of agents is no more than ceil(n/3) in each region | the algorithm executes correctly |
| 5 | Choose the constrained3 algorithm and user click the run button | Environment configuration file whose content is in correct format with the number of agents is more than ceil(n/3) in each region | Prompt error message |
| 6 | Choose the constrained3 algorithm and user click the run button | Environment configuration file whose content is in incorrect format | Prompt data format is wrong |
| 7 | Choose the constrained4 algorithm and user click the run button | Environment configuration file whose content is in correct format with the number of agents is no more than ceil(n/4) in each region | the algorithm executes correctly |
| 8 | Choose the constrained4 algorithm and user click the run button | Environment configuration file whose content is in correct format with the number of agents is more than ceil(n/4) in each region | Prompt error message |
| 9 | Choose the constrained4 algorithm and user click the run button | Environment configuration file whose content is in incorrect format | Prompt data format is wrong |

Consider the sprint task #24 – Implement the constrained-3 algorithm

Consider the sprint task #25 – Implement the constrained-4 algorithm

These test case is same as sprint task #13 – Implement the free form algorithm