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Software Testing

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White Box Testing

1. Problem 1
   1. T1 = NULL, T2 = [1], T3 = [1,2]
   2. T1 = NULL, T2 = [1], T3 = [1,2], T4 = [3,2]
2. Problem 2

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  | A | B | C |  |
| ID | input | n < max\_size | c = getc(yyin) != EOF | c != ‘\n’ | Result |
| 1 | n = 5; c = ‘X’ | true | true | true | true |
| 2 | n = 5; c = ‘\n’ | true | true | false | false |
| 3 | n = 5; c = EOF | true | false | true | false |
| 4 | n = 10; c = ‘X’ | false | true | true | false |
| 5 | n = 10; c = ‘\n’ | false | true | false | false |
| 6 | n = 10; c = EOF | false | false | true | false |

* 1. A = 1 and 4, B = 1 and 3, C = 1 and 2

1. Problem 3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ID | input | Room | Open | Close | Bar | Result |
| 1 | pos = 1; pa[pos]=’{’ | true | true | false | false | true |
| 2 | pos = 5; pa[pos]=’{’ | false | true | false | false | false |
| 3 | pos = 1; pa[pos]=’a’ | true | false | false | false | false |
| 4 | pos = 1; pa[pos]=’}’ | true | false | true | false | true |
| 5 | pos = 1; pa[pos]=’|’ | true | false | false | true | true |

* 1. Room = 1 and 2, Open = 1 and 3, Close = 4 and 3, Bar = 5 and 3