The file “input.txt” has the contents:  
  
2 0 7.0 77.0

3 2 12.0 122.0

0 3 14.0 144.0

1 0 5.0 101.0

3 1 10.0 66.0

1 2 6.0 55.0

The file “onlyOne.txt” has the contents:

11 29 1.9 9.4

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Description | Expected Results | Actual Results |
| Test #1 (DT) - Trying to Load an Invalid File | Prereq: The file “fake.txt” does not exist, and the user has started the program.   1. At the file prompt, enter “fake.txt”. | The program should re-prompt the user for an input file. |  |
| Test #2 (ECP) - Load a Valid File | Prereq: The file “input.txt” exists, and the contents are described as above, the user has started the program.   1. At the file prompt, enter “input.txt”. | The program should prompt the user between building a minimum spanning tree based off-of “cost” or “asphalt”. |  |
| Test #3 (BVA) - Build Tree with Only One Edge | Prereq: The file “onlyOne.txt” exists, and the contents are described as above, the user has started the program.   1. At the file prompt, enter “onlyOne.txt”. 2. At the MST type selection, the user enters “cost”. | The following is printed to standard output, and the user is again prompted for MST type: List[  ] |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |