

# SUMMARY REPORT

Note:

My all the actual output files are in the sub directory named “actoutput” which is in the directory “testsuite”.

## **File name of test cases Passed:**

1. 0lengthaddress
2. 1lengthaddress
3. duplicate
4. emptytreeprint
5. emptytreeprintquad
6. maxlengthaddress
7. newvalid
8. newnotvalid
9. notfoundquad
10. notfoundtree
11. notremovetree
12. removequad
13. removetree
14. treenotdeleted
15. verboseremove

## **File name of the test cases Failed:**

1. nicejob
2. foundquad
3. foundtree
4. helpcmd
5. insertI
6. insertinvalidchar
7. invalidcmd
8. LLgreaterUR
9. notreequit
10. notremovequad
11. onelevelquad
12. oneleveltree
13. twolevelquad
14. twoleveltree
15. printtree
16. toolongaddress
17. treecreateddelete
18. verbosefind
19. verboseprint

I am providing the short summary about why some test cases were failed in our demo program and which you can find in the table below.

<b>File name in actoutput directory</b>	<b>Failed cases Why? How to fix it?</b>
“nicejob”	In this case we are expecting that if user enters “nicejob” then it will take N as command and I as command and should “cejob” as title and then should prompt user for the description name but it will generate runtime error so this test case will fail and the exit status for this case will be non zero because of runtime error, and when I am running my script when it checks for this test case it will take 10 seconds for generating the output
“foundquad”	We are expecting that it should show up the colon between the LL and UR addresses but in actual output it is printing “,” between the addresses, so we can just fix this issue in the demo program by correcting the typo and this case is failing because not having the colon between LL and UR
“foundtree”	We are expecting that it should show up the colon between the LL and UR addresses but in actual output it is printing “,” between the addresses, so we can just fix this issue in the demo program by correcting the typo and this case is failing because not having the colon between LL and UR
“helpcmd”	We are expecting that when we enter quit command it should only display one message but in actual output it is displaying some extra message like this, “Warning: no item tree present to delete” so this is the reason this case is failing and we can fix easily this issue in demo program by removing cout of the extra message
“insertI”	We are expecting that when we enter quit command it should only display one message but in actual output it is displaying some extra message like this, “Warning: no item tree present to delete” so this is the reason this case is failing and we can fix easily this issue in demo program by removing cout of the extra message

“insertinvalidchar”	When user enter invalid characters for the LL and UR we are expecting just a warning message as per specification but it is giving some extra message like this, “(either just *, or 1-10 digits 0-3)” and we don’t have this extra message in the expected output so this test case will fail and we can easily fix this issue in the demo program by removing the extra print message
“invalidcmd”	We are expecting that when we enter quit command it should only display one message but in actual output it is displaying some extra message like this, “Warning: no item tree present to delete” so this is the reason this case is failing and we can fix easily this issue in demo program by removing cout of the extra message
“LLgreaterUR”	When user enter greater lower left address than upper right address we are expecting to get the warning message like this, “Warning: 3333333333 is not a valid address” but in the actual output we are not getting this warning message. So, because of this reason this test case will be failed and easy to fix this issue
“notreequit”	We are expecting that when we enter only quit command it should only display one message but in actual output it is displaying some extra message like this, “Warning: no item tree present to delete” so this is the reason this case is failing and we can fix easily this issue in demo program by removing cout of the extra message
“notremovequad”	So, in this case we are entering the wrong address when we enter the value for removing the quad and it will show up error message like this, “WARNING: 4 is not a valid address (either just *, or 1-10 digits 0-3) Error: searching for invalid address 4”, and in the specification it is not mentioned that we have to show extra messages when user enters wrong address so this is the reason behind failing of this case and we can easily fix it
“onelevelquad”	When we are printing the quads we are expecting that it will only print the quad but

	in actual output, it is printing some extra message like this, "Printing quad from "0"" and also we are expecting colon between the LL and UR. So, this is the reason for failing this case and easily we can remove extra print statement in the demo program
"oneleveltree"	In this case we are expecting that it should print the one level tree and it is printing fine but We are expecting that it should show up the colon between the LL and UR addresses but in actual output it is printing "," between the addresses, so we can just fix this issue in the demo program by correcting the typo and this case is failing because not having the colon between LL and UR
"printtree"	We are expecting that when we enter quit command after the print command, it should only display one message but in actual output it is displaying some extra message like this, "Warning: no item tree present to delete" so this is the reason this case is failing and we can fix easily this issue in demo program by removing cout of the extra message
"toolongaddress"	When user enters greater address length than LL and UR maximum length at that time we are expecting just a warning message as per specification but it is giving some extra message like this, "(either just *, or 1-10 digits 0-3)" and we don't have this extra message in the expected output so this test case will fail and we can easily fix this issue in the demo program by removing the extra print message
"treecreatedelete"	We are expecting that when we enter quit command in the end, it should only display one message but in actual output it is displaying some extra message like this, "Warning: no item tree present to delete" so this is the reason this case is failing and we can fix easily this issue in demo program by removing cout of the extra message
"twolevelquad"	When we are printing the quads we are expecting that it will only print the quad but in actual output, it is printing some extra message like this, "Printing quad from "0"" and "Printing quad from "1"" and also we are

	expecting colon between the LL and UR. So, this is the reason for failing this case and easily we can remove extra print statement in the demo program
“twoleveltree”	In this case we are expecting that it should print the two level tree and it is printing fine but We are expecting that it should show up the colon between the LL and UR addresses but in actual output it is printing “,” between the addresses, so we can just fix this issue in the demo program by correcting the typo and this case is failing because not having the colon between LL and UR
“verbosefind”	In this case we are expecting that it should show up the colon between the LL and UR addresses but in actual output it is printing “,” between the addresses, so we can just fix this issue in the demo program by correcting the typo and this case is failing because not having the colon between LL and UR
“verboseprint”	In this case we are expecting that it should show up the colon between the LL and UR addresses but in actual output it is printing “,” between the addresses, so we can just fix this issue in the demo program by correcting the typo and this case is failing because not having the colon between LL and UR

Thank you!