**Static Code analysis hands-on**

1. Login into the Linux server

2. Create a new directory called splint in your home directory <home>

mkdir splint

3. Go inside the directory you have created in (2) /<home>/splint

cd splint

4. Copy the following files from the path as mentioned by the trainer:

a. sample1.c

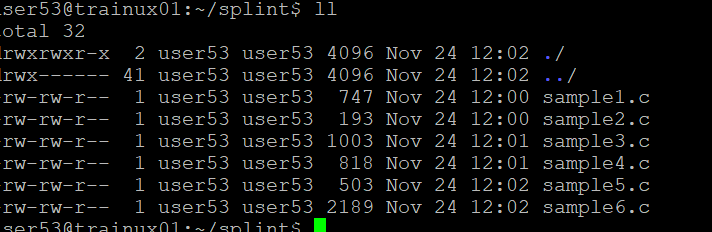
b. sample2.c

c. sample3.c

d. sample4.c

e. sample5.c

f. sample6.c



**Static Code analysis using Splint**

5. Read through the code for sample1.c and statically check the file

splint sample1.c

Closely analyze the warnings given by Splint. Some of the warnings given by a static code analyzer may not be valid for your code.

E.g. suppose in this example you do not want the warnings related to unused parameters and variables. Try giving the splint command with –paramuse and –varuse to inhibit these warnings:

splint –paramuse –varuse sample1.c

A screenshot of a computer screen

Description automatically generated

6. Read through the code for sample2.c and statically check the file

splint sample2.c

Edit this file to fix all the warnings and re-run splint on the updated program

A screen shot of a computer error

Description automatically generated

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Description automatically generated

7. Read through the code for sample3.c and statically check the file

splint sample3.c

A screenshot of a computer screen

Description automatically generated

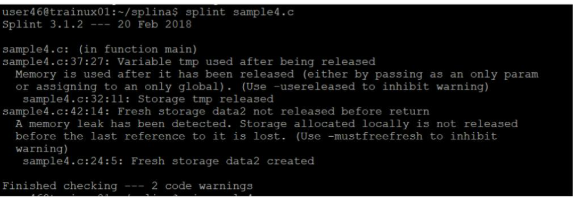
Edit this file to fix all the warnings and re-run splint on the updated program

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Description automatically generated

8. Read through the code for sample4.c and statically check the file

splint sample4.c



Edit this file to fix all the warnings and re-run splint on the updated program

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Description automatically generated

9. Read through the code for sample5.c and statically check the file

splint sample5.c

A computer screen with white text

Description automatically generated

Edit this file to fix all the warnings and re-run splint on the updated program

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Description automatically generated

10. Read through the code for sample6.c and statically check the file

splint sample6.c

A screenshot of a computer program

Description automatically generated

Edit this file to fix all the warnings and re-run splint on the updated program

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Description automatically generated

Including Static Code analysis as part of the makefile

11. Copy the files below to your working directory (which were used in makefile assignment). Create the project directory structure and copy them to appropriate directory. Add a makefile in make directory to include options to run splint tool on files program.c, simplelink.c. Fix the issues reported.

a. program.c

b. simplelink.h

c. simplelink.c

A screen shot of a computer screen

Description automatically generated