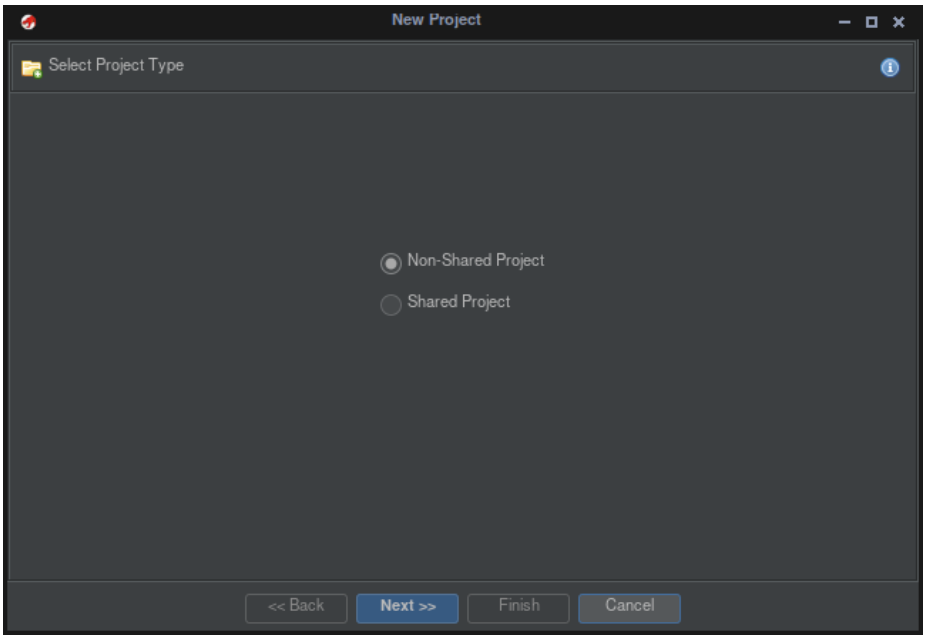
Modification LK.bin to erease Orange state and confirmation boot

Bypass Confirmation Boot

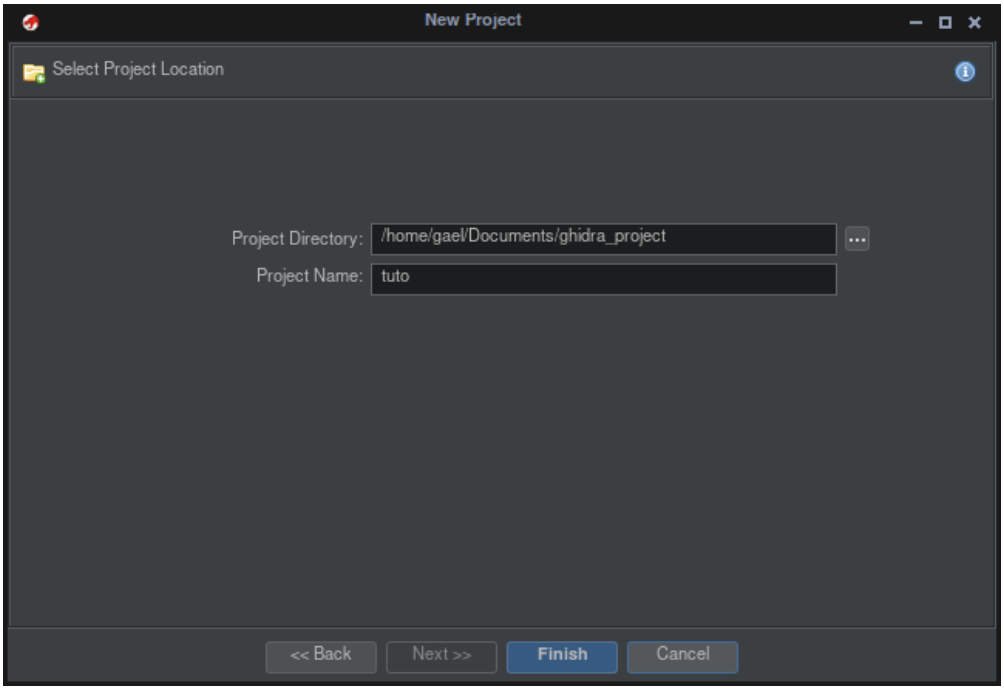
> Tool necessary : Ghidra
> Download and install here : https://github.com/NationalSecurityAgency/ghidra

Open file lk.bin in Ghidra

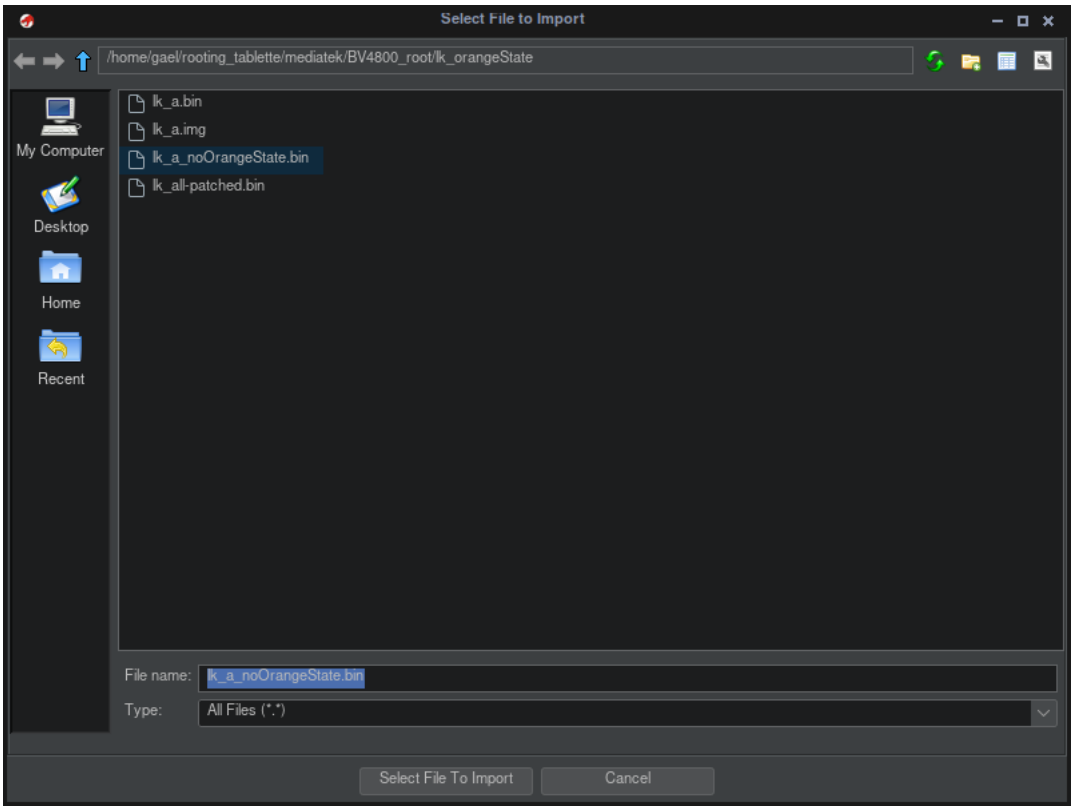
- File --> new project
- Non-Shared Project --> Next



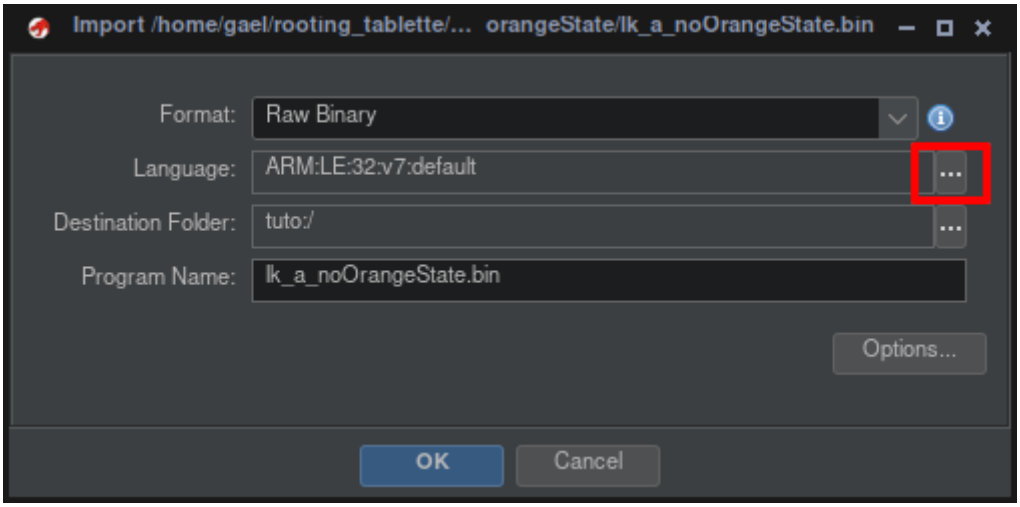
- Give a name to your project --> Next

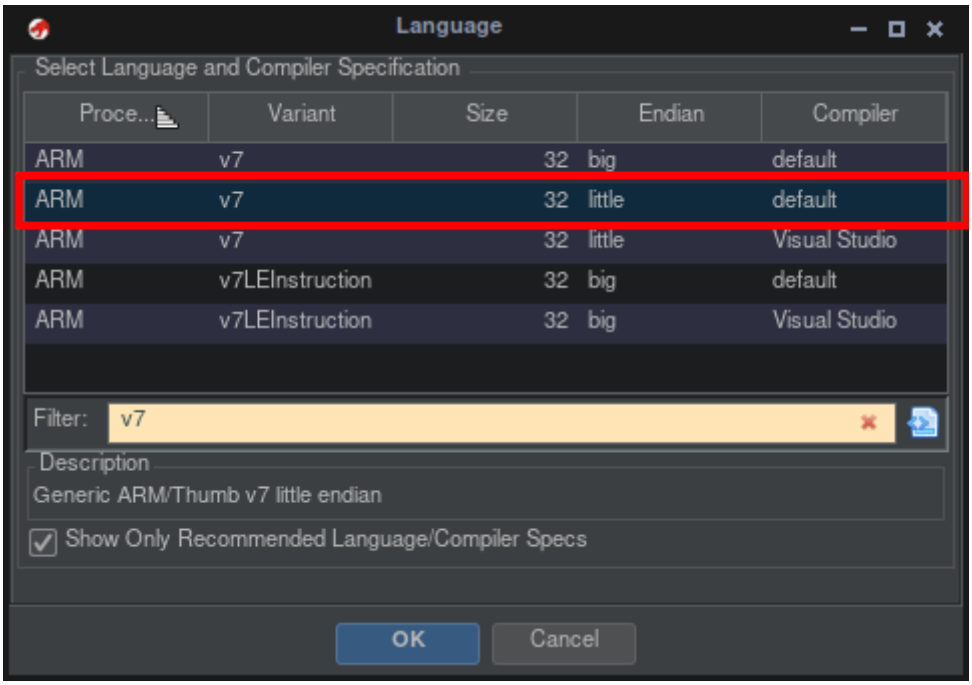


- File --> import File
- Import File lk.bin you want patch

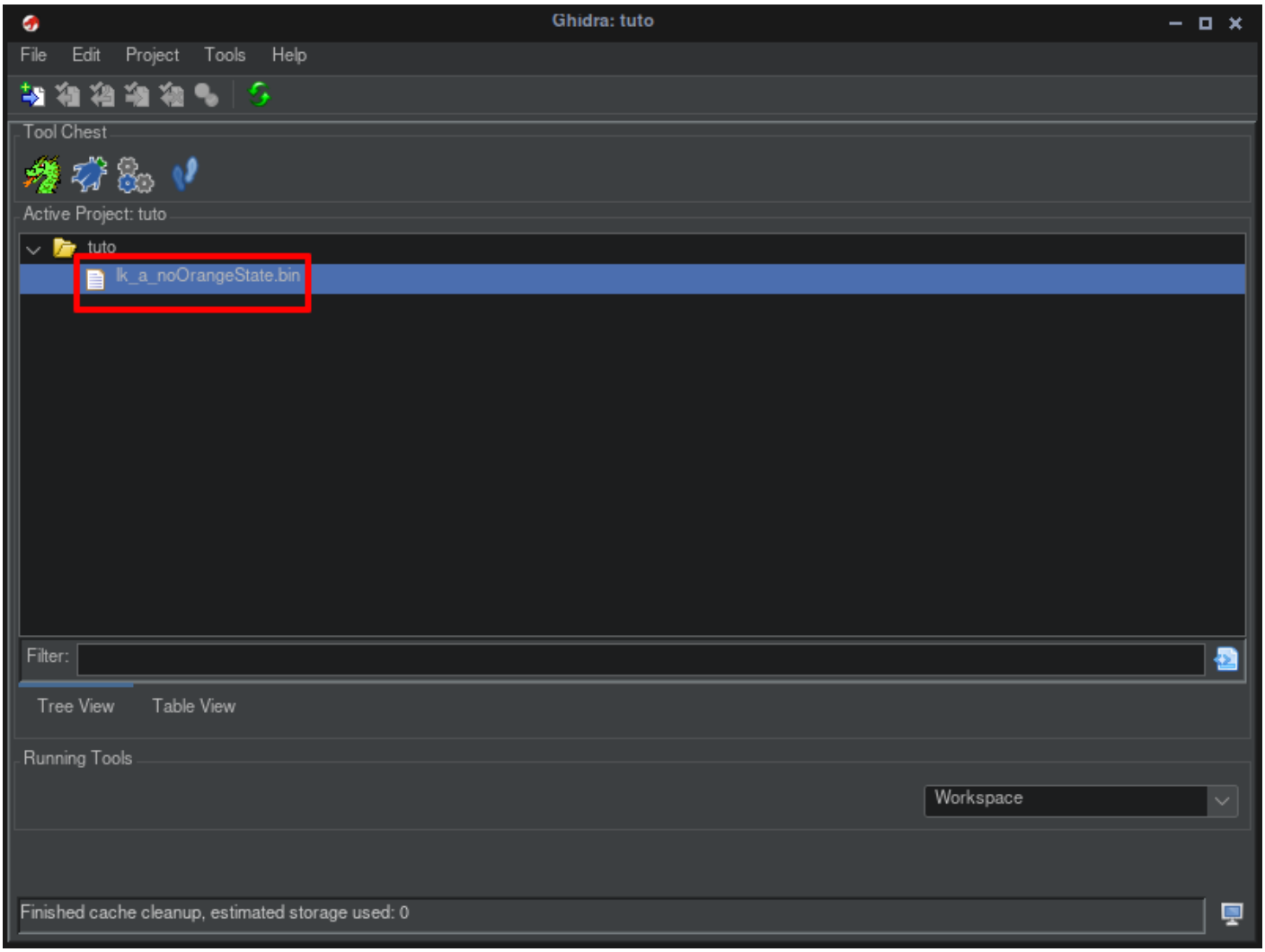


- Select Langage --> ARM v7 | 32 | little | default

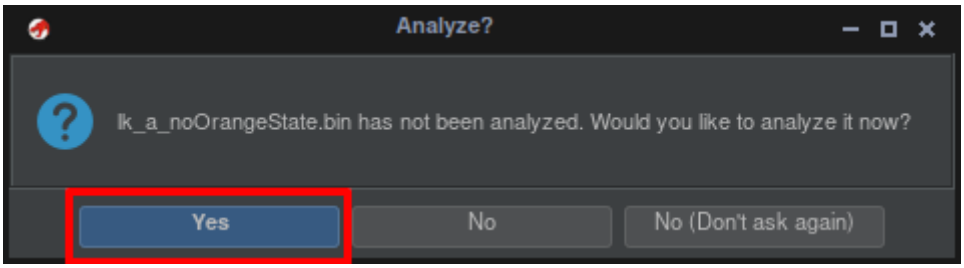




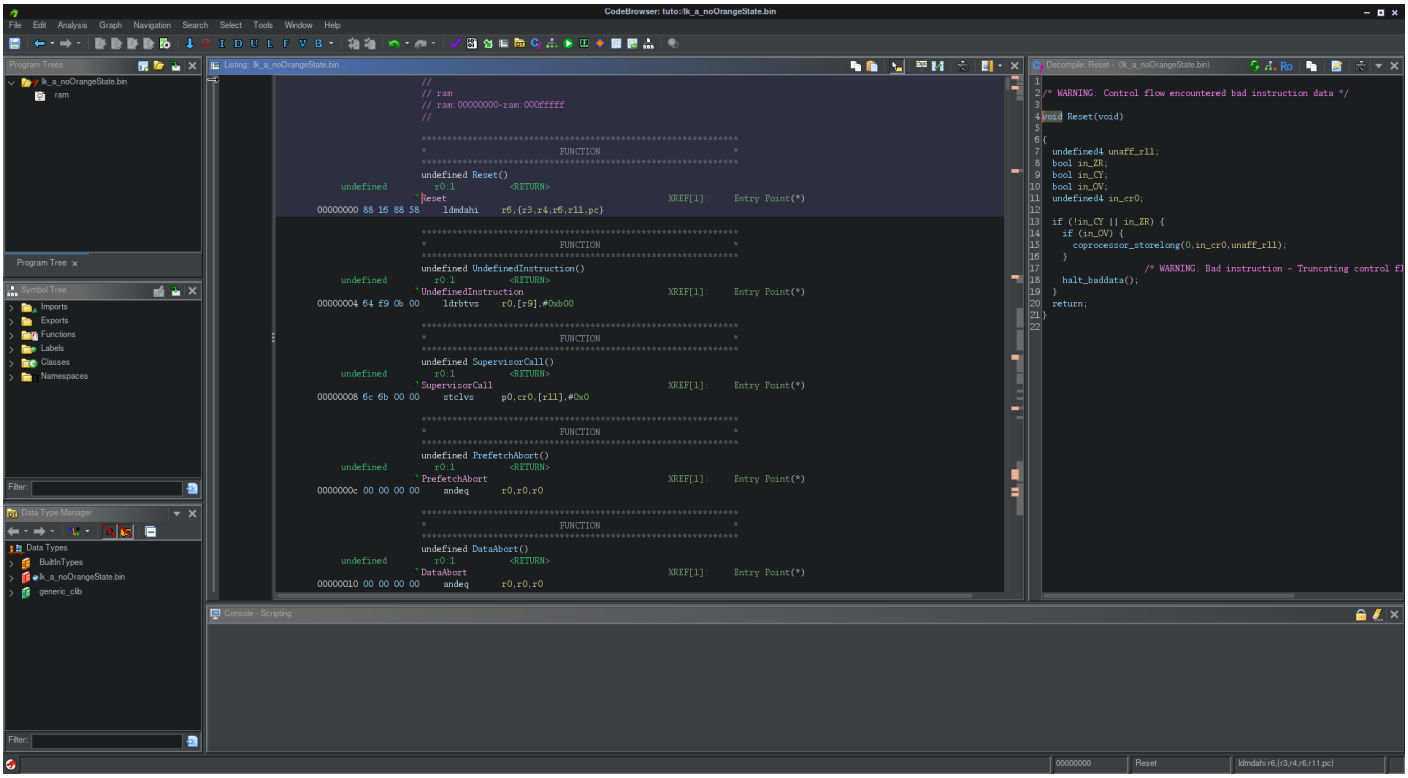
- Double click on file



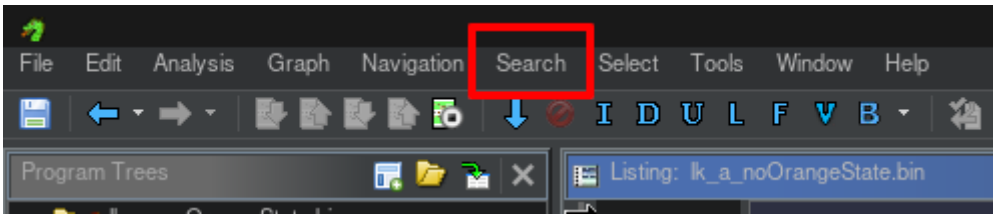
- respond yes to analyzed



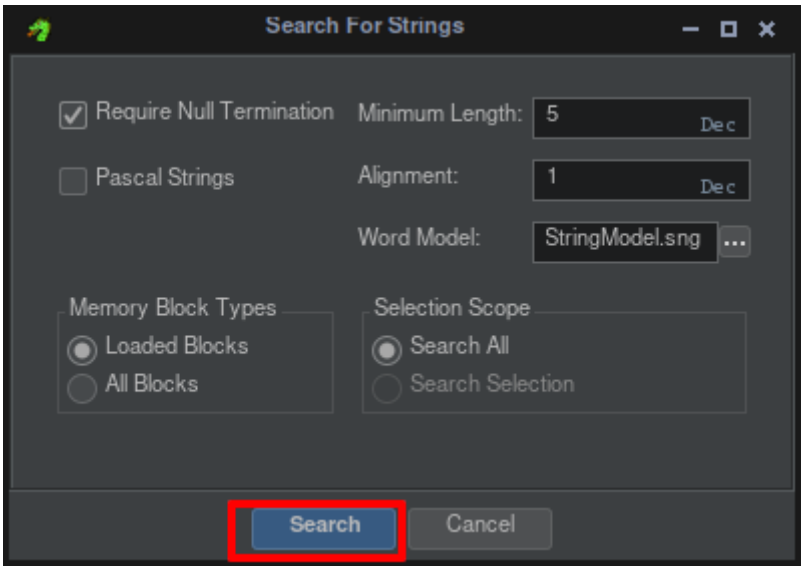
- We will get



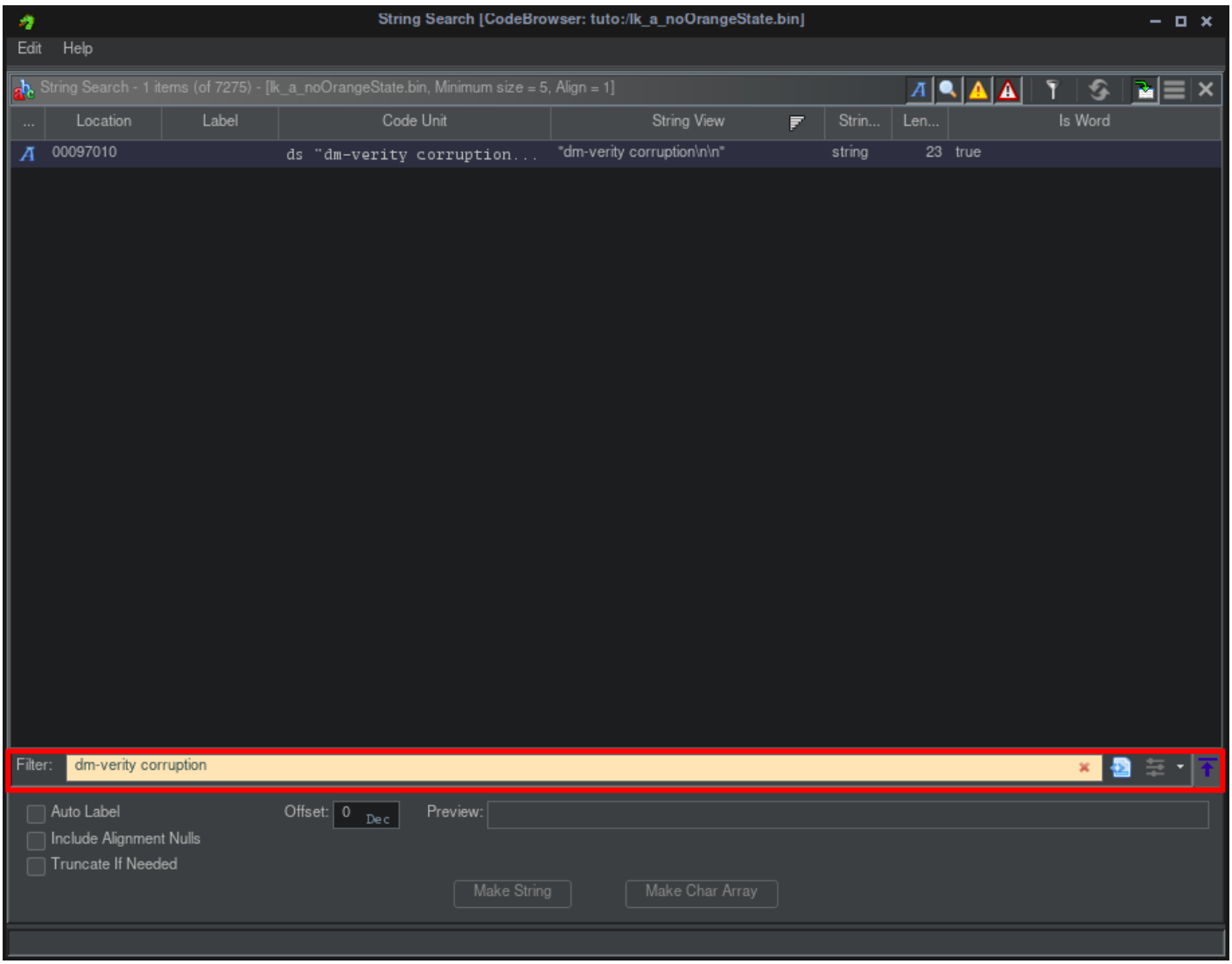
- Search --> for String



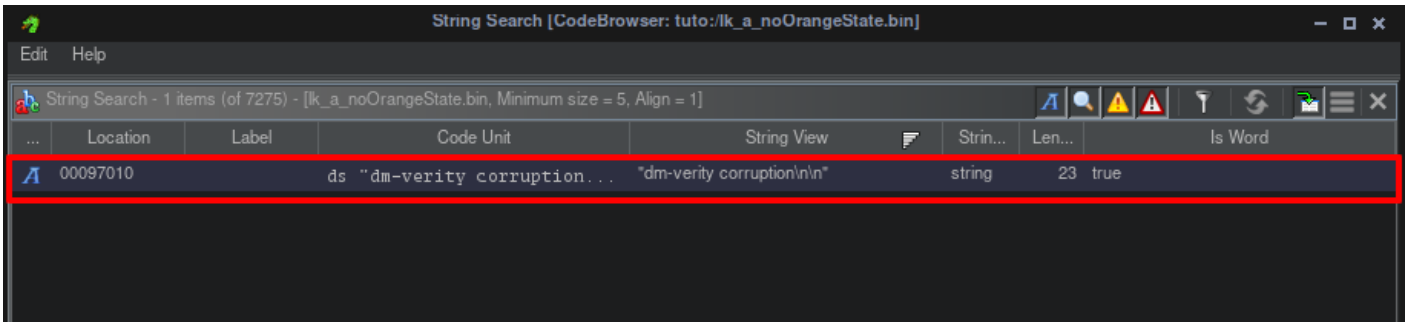
- continue with clicking on Search



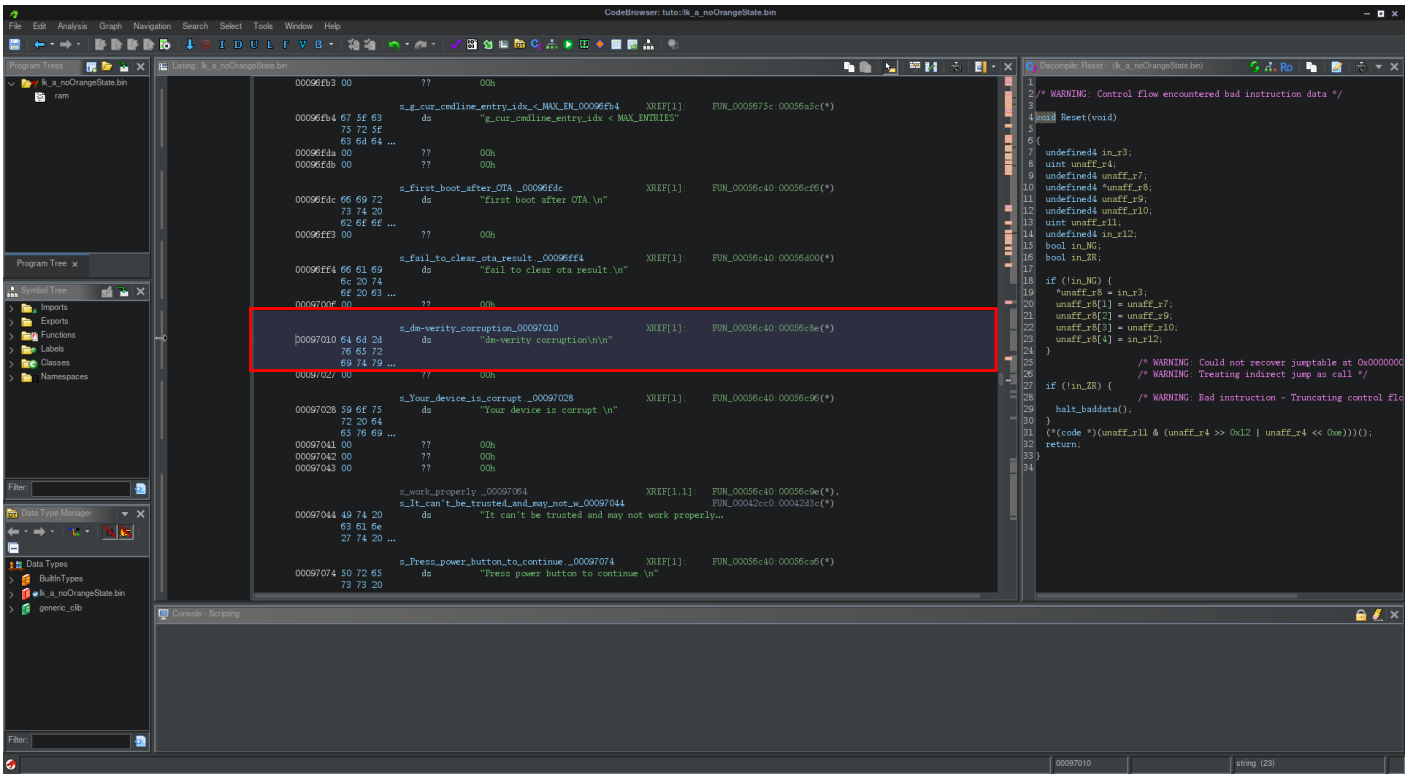
- type "dm-verity corruption" on filter



- One final will find --> click on line find

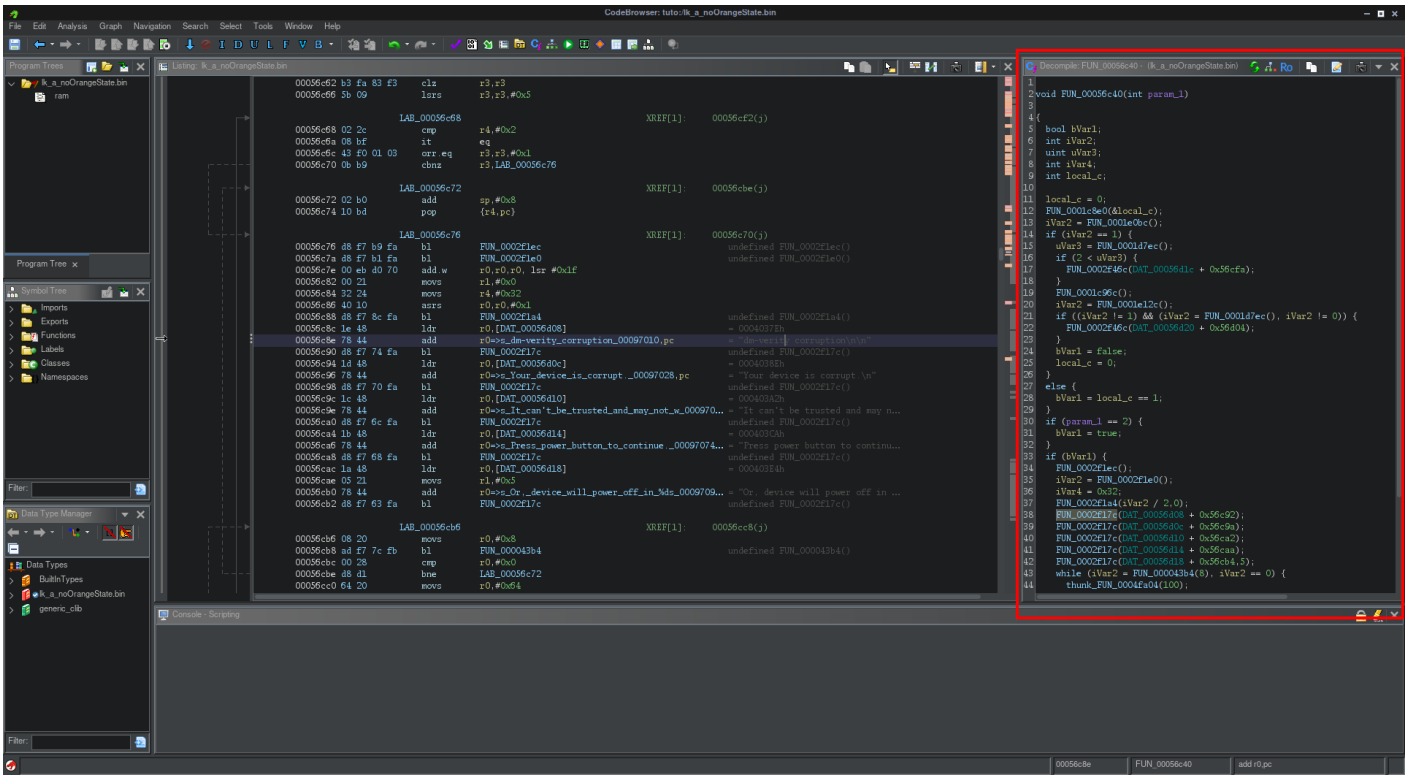


- this will give

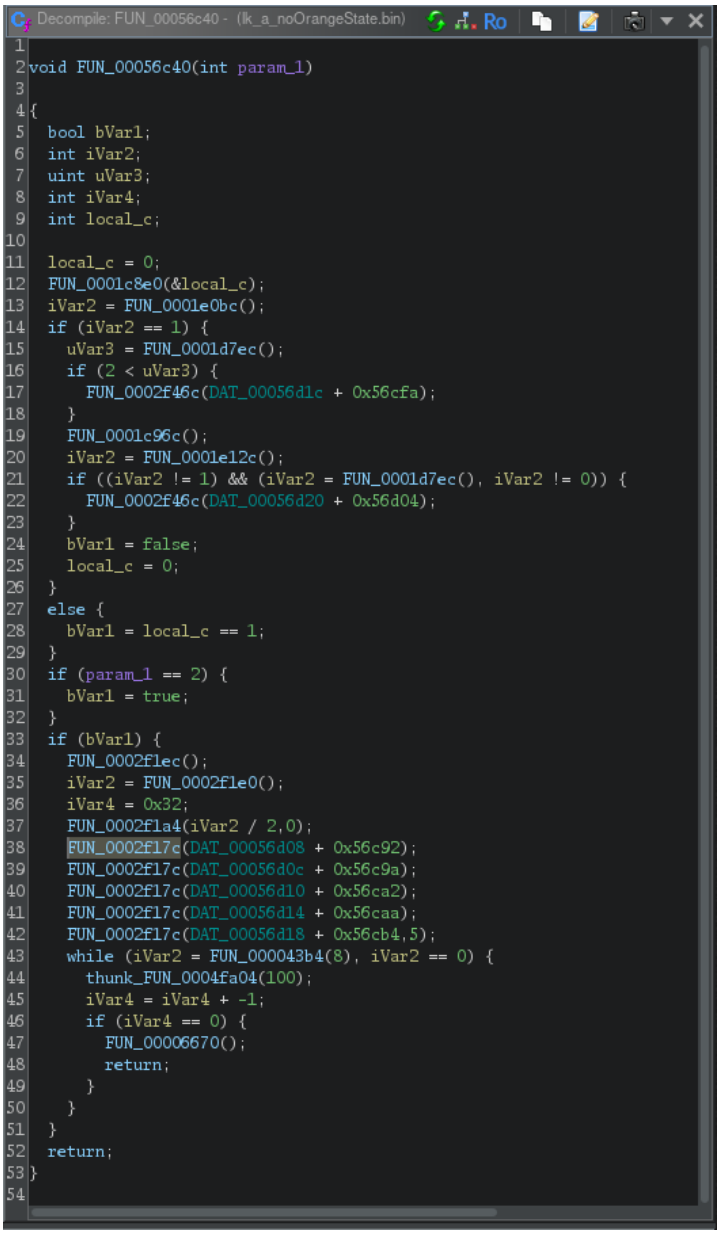


- Go to the fonction who call the string "dm-verity corruption" with double click on hexa (FUN_00056c40:00056c8e)

- This will give



- We get the fonction we need on right



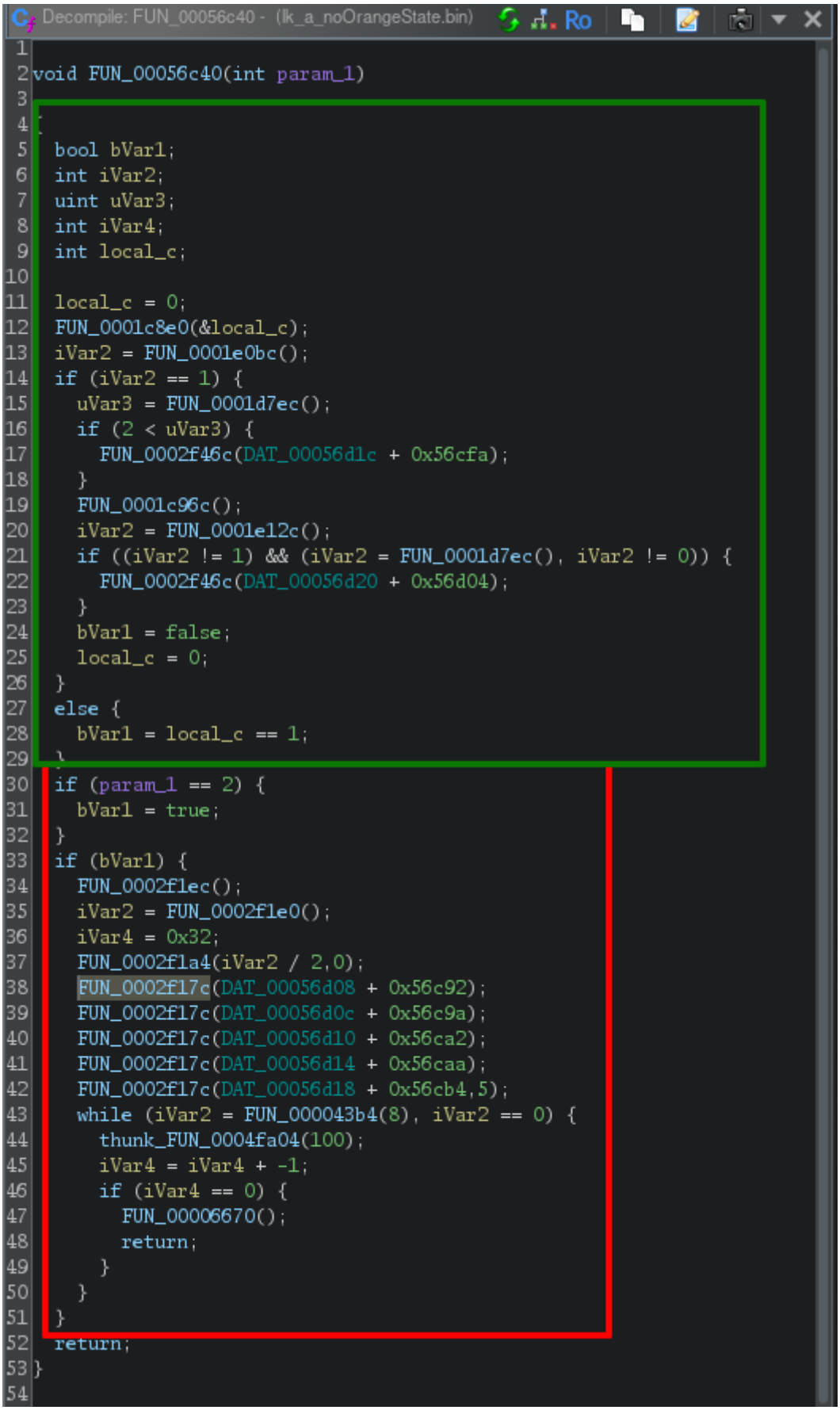
- The fonction who call string dm-verity is highlighted

```
FUN_0002f17c(DAT_00056d08 + 0x56c92);
```

- We can understand if the boot not start correctly

the var `param_1 == 2` and give `bVar1 = true;`

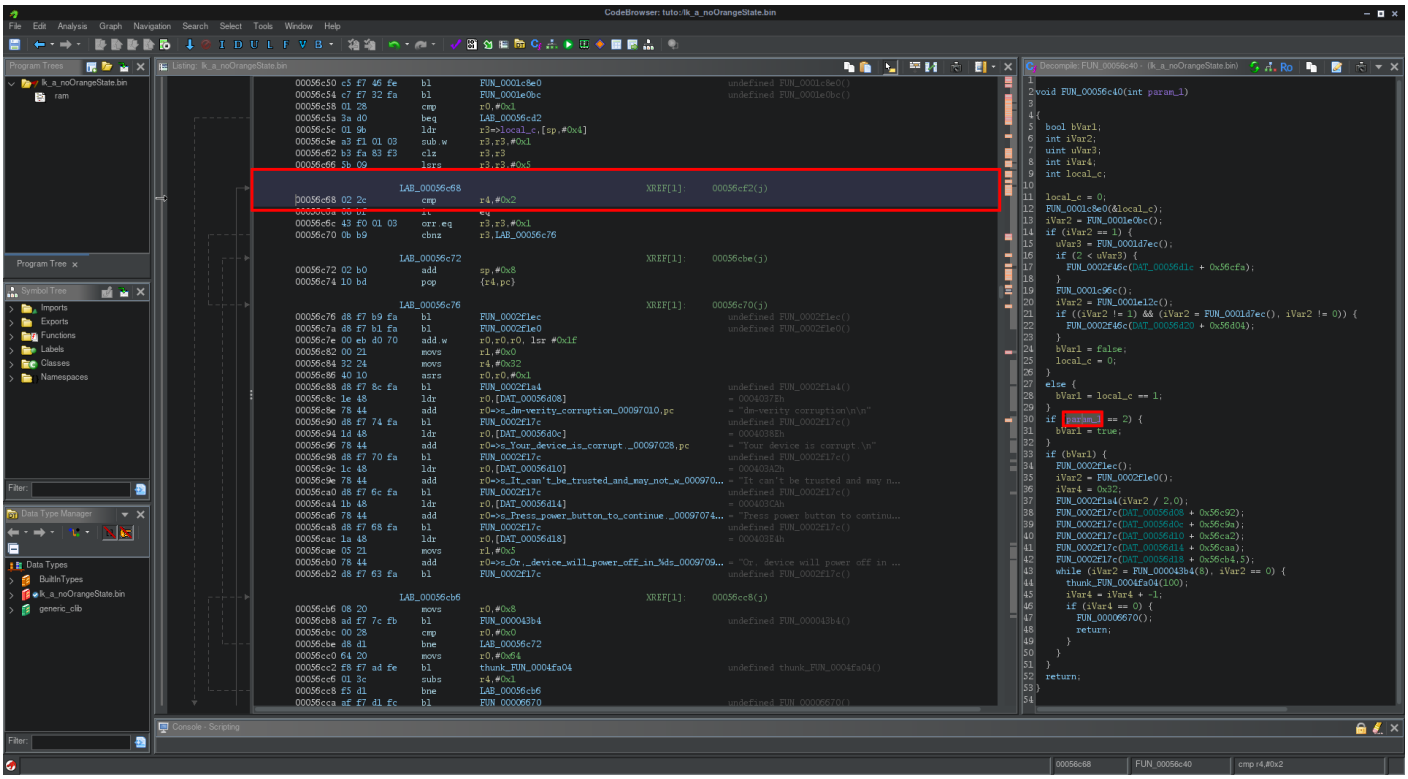
so the first an green is if boot is corectly and an red if we got an error



- We therefore need to modify one of these variables so that it is no longer used in the function.

`param_1 == 2` or `bVar1 = true;`

- In the function, if we click on the desired variable, we move to the line where it is in the file.



- Right Click on line --> Patch instruction
- Change value of condition

```
                    LAB_00056c68                                    XREF[1]:     00056cf2(j)
00056c68 02 2c          cmp         r4,#0x2
```

- We can do like this

```
                    LAB_00056c68                                    XREF[1]:     00056cf2(j)
00056c68 05 2c          cmp         r4,#0x5
```

```
if (param_1 == 5) {
  bVar1 = true;
}
```

- After this we can save file quit

- For export with menu project
- Right click on file --> select export
- You can choose Format Original File

Find the warning string

https://github.com/R0rt1z2/lkpatcher

https://lkpatcher.r0rt1z2.com/

https://blog.r0rt1z2.com/patch-mediatek-bootloader-images-lk.html

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Revision #5
Created 22 April 2024 08:36:27 by Foufure
Updated 23 May 2024 13:20:09 by Foufure