# Summary Report

Since I have used docker before it wasn’t too big of a challenge for me to set up the environment and get Hydrogen running and get the output files. But I did ran into a segmentation fault in the beginning. I fixed it by cloning from iowa state univeristy’s repo.

Looking at the source code of Hydrogen.cpp, I think it would have been extremely difficult had we had to implement the two addToMVICFG and deleteFromMVICFG because I didn’t understand the whole structure Hydrogen and in either function, a lot of functions they defined were used.

One challenge for me was that I did not understand what code churn size, MVICFG size and path added/removed meant, but I git the answer from the TA and professor.

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| --- | --- | --- | --- | --- | --- |
|  | Code churn size | MVICFG size | paths added | paths removed | time used |
| test: v1-v2 | 2 | 11.5KB, 71nodes,  72 edges | 3 | 3 | 9ms |
| test: v2-v3 | 2 | 12.6KB,  82 nodes,  83 edges | 3 | 3 | 3ms |
| my test 1 | 1 | 3.7 KB,  24 nodes,  23 edges | 2 | 2 | 1ms |
| my test 2 | 1 | 9.4 KB,  59 nodes,  66 edges | 3 | 3 | 3ms |

Overall, I think the generated graphs are a bit complicated for real world use cases. Especially for my second test case, I implanted a bug in a function that determines if a number is a prime number, which is a very simple basic function, but the resulting graph was quite complicated for what the input was.