

### Project 3 – CSCI2021 – The Assembly BomB

This was a project that focused on the understand of assembly code and gdb, the goal of the project was to defuse a mutant assembly bomb (different for every student), every time you were able to defuse the bomb or set it off. It was recorded by a server.

Phase 1 is sort of the “Hello World” of the Bomb Lab. You will have to run through the reverse engineering process, we looked for any assemble comparison functions and from there check the stack for a string at specific memory address.

The first thing to notice here is that phase 2 is calling a function by the name of `<read_six_numbers>`. So there's our first big clue: our answer takes the format `a b c d e f` where a-f are integers. After some digging in the assembly I noticed a pattern of incrementation which led to the answer.

There were a total of 7 phases and all had unique functions that required setting specific breakpoints and investigating the assembly code. After examination you can notice specific patterns that allowed you to find the phrase.