step1-Prepare

- 1. Open a terminal, go to the directory:
 - \$ cd ~/Lab/BOMB
- 2. Use gdb:
 - \$ gdb bomb
- 3. Have a general view of all functions: (you can find the additional phase by doing it!)
 - \$ info functions

step2-Defuse

- (i). Make sure no bomb can be exploded\$ break explode_bomb
- When you run the program and type an incorrect answer, you will see something like this:
 - Breakpoint 1, 0x08049502 in explode_bomb ()
- You type: \$ kill
 gdb responds: \$ Kill the program being debugged? (y or n)
 you answer should be: \$ y

step2-Defuse

- (ii). Defuse you bombs one by one (Ex. phase 1)
- Disassemble:
 - \$ disas phase_1
- Focus on constants, such \$0x80497c0
- Guess what a function does by studying its name, such as <strings not equal>
- Examine the data
 - \$print (char *) 0x80497c0
- gdb responds: "Public speaking is very easy." and that is the answer!

Further information

- Please read the the writeup carefully.
 writeup.pdf tells you everything about the lab!
 Give special focus to "Hints"
- Please read gdbnotes-x86 carefully.
 In fact, you can defuse all the bombs using no more than 5 qdb commands. Don't be anxious!
- If you don't understand the assembly language, read the text book
 - Branches (if, while, switch) & Procedure (recursion)