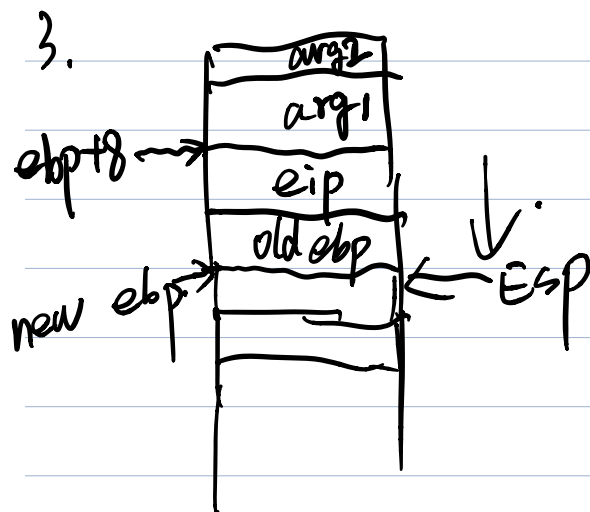1. sticky set ask the program to be remained in memory to execute much faster next time.
   .txt section

2. if no return value, the eax $\overset{register}{\swarrow}$ remains the value of last statement returned. or stored.

3.

4. C89 if no return function in main, it returns the original value of last statement
   C99. it returns 0 for main.

5. display rip
            rbp
            rax

6. atexit() is like a deconstructer to register before the main exit.

7. malloc → library call.
   brk → system call.

   alloca → allocate memory on stack

   calloc → initiate the memory to zero.

8. process can only change the soft limit of the resource.
   hard limit need higher permission.

9. fork copy the io buffer either, and pass it to the "cat", it flush the io buffer out to the screen.