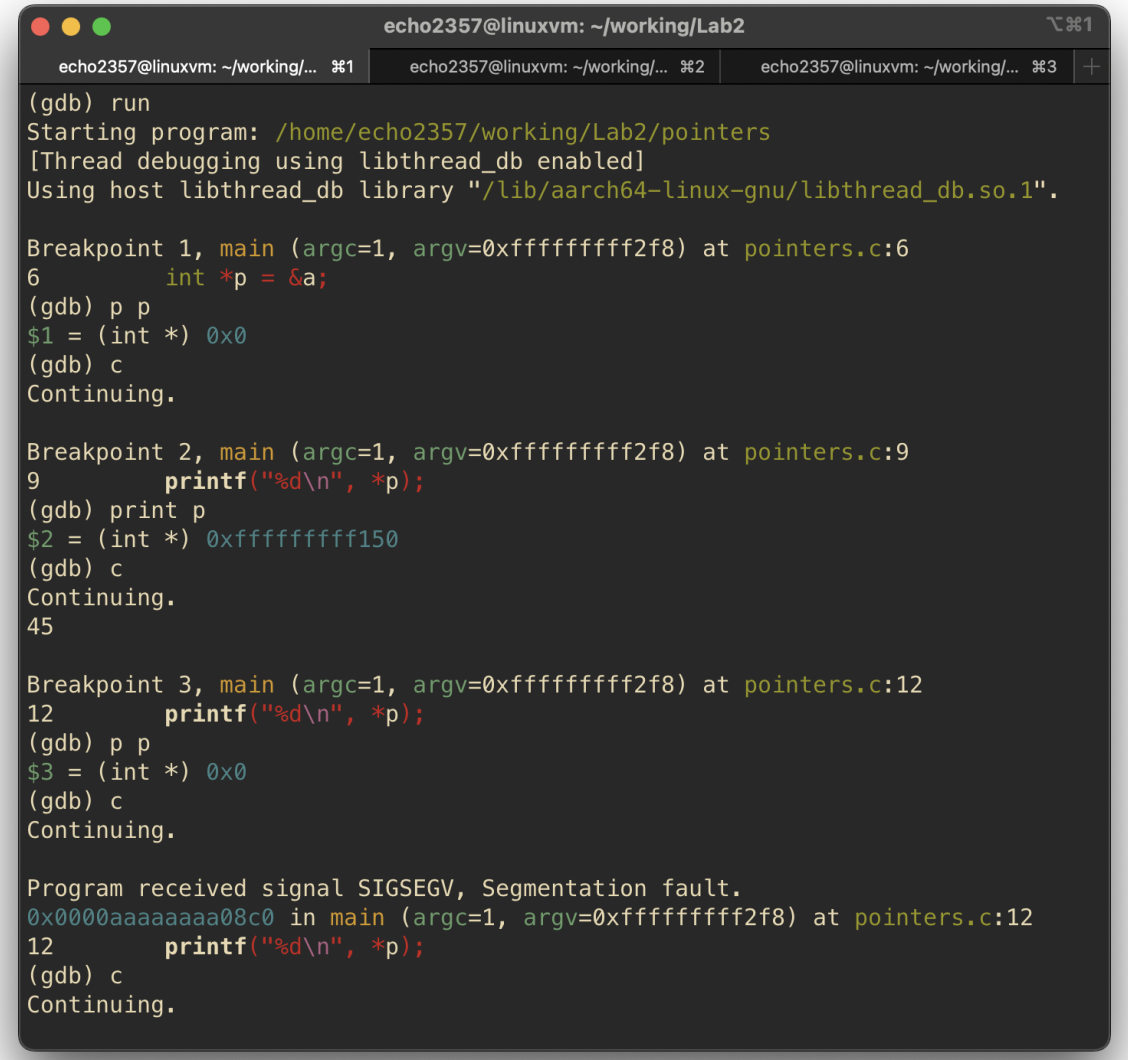
Lab 02

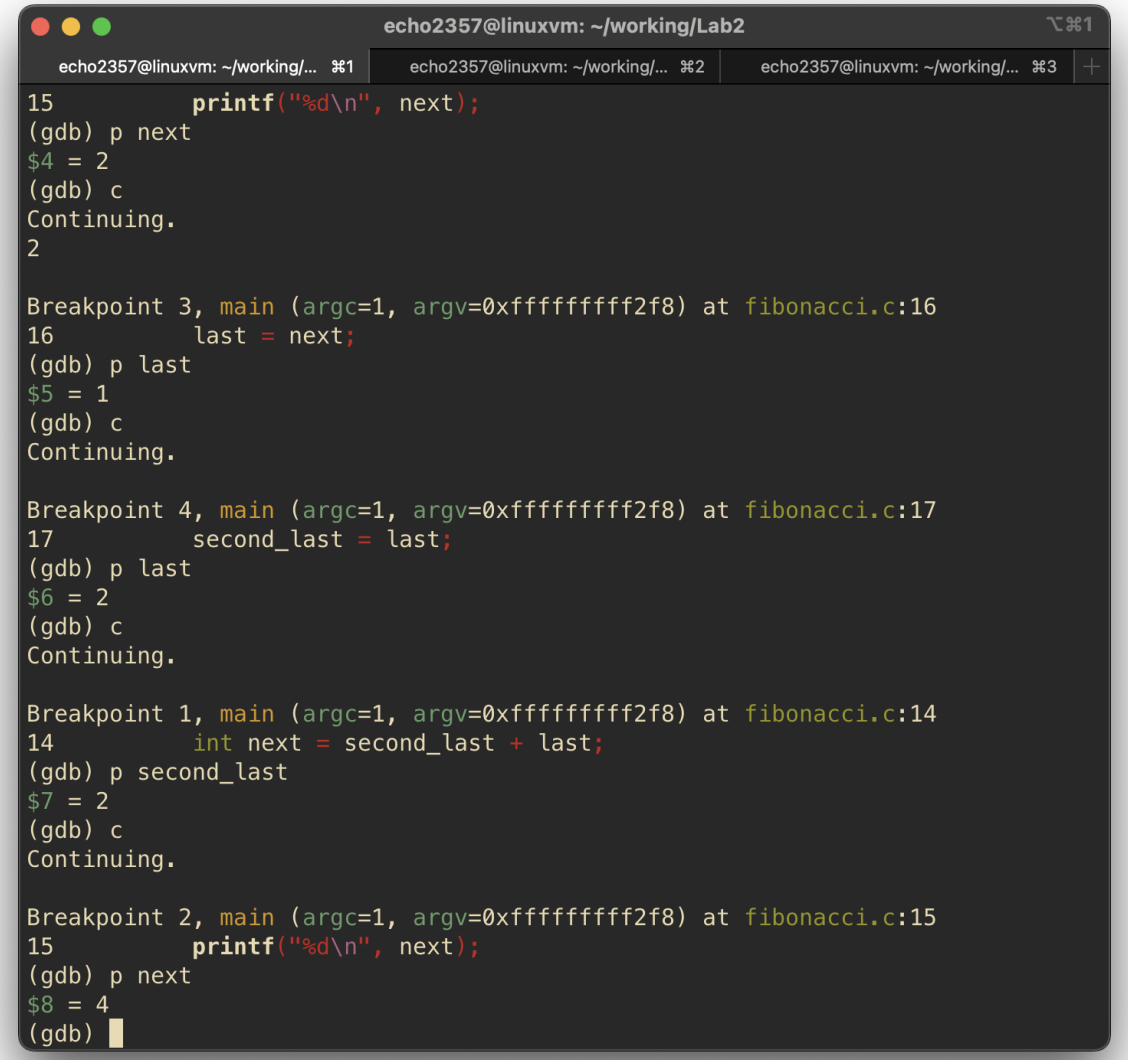
Echo Wang A01347203

Question 1

Line 12 - A segmentation fault happens when we try to read from a null pointer (0x0)



Question 2

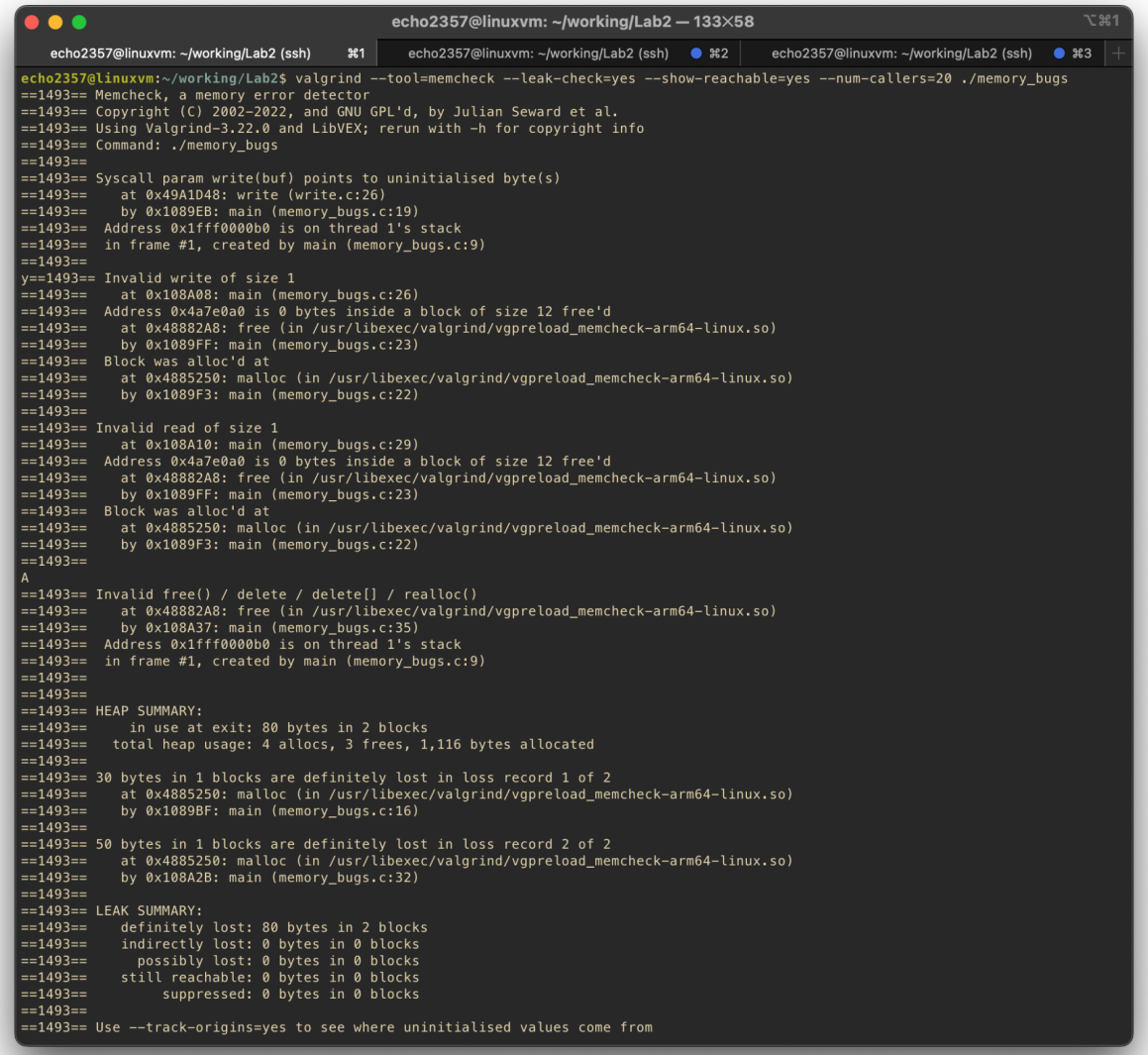


The 2 variables: `last` and `second_last` is set to the same value of `next`, in this iteration, `2`, which is not what we want

We should switch line 16 and 17 to make the logic correct

Also, initializing `second_last` to 0 would make the program more compliant to the definition of fibonacci numbers, as mentioned in the lab :p

Question 3



1. Uninitialized Memory Use at line 16 `write(fileno(stdout), arr, 10)` .The variable arr is declared as `int arr[10]` and there's no initialization, so we're not supposed to read from it
2. Invalid Write at line 26 `p = 'A'`, because `*p` has already been freed at line 22
3. Invalid Read at line 29 `printf("%c\n", *p)` because of the same reason above:`*p` has already been freed at line 22
4. Invalid free of `arr` at line 35, because the memory location is statically allocated in the stack with `int arr[10]`, so it cannot be freed
5. Memory leaks at line 16 and line 32: Memory is allocated with `malloc()` calls, but never used nor freed.