

Problem 1:

Printing page table entries is accomplished by defining a function `vmprint()`, having its prototype in `defs.h` & the definition in `vm.c`. The argument of this function is the pagetable. The function is invoked in `exec.c` file, if the process id is 1.

The implementation of the function is as follows:

We take the help of a helper function `print_pt_contents()` that takes the pagetable & the depth as arguments and recursively prints using the dfs algorithm.

Problem 2:

Skipping the page allocation is accomplished by removing the `growproc()` part, which actually does the memory allocation part & just changing the size field within the `sbrk()` function

Problem 3:

To avoid errors, checked whether `r_sauce()` returns 13 or 15, in which case (page load / store fault) in `usetrap()` function (`trap.c` file), trap handler allocates new physical memory and adds to page table, so the error is avoided

PS:

I was feeling sick for the past 2 days, so was resting and was unable to make recordings & report in time, so started making them as soon as I woke up in the morning.