main (kernel enty point)

- kinit1 (frees pages)
 - freerange (frees pages)
 - kfree (frees single page)
- kvmalloc (builds new page table)
 - setupkvm (sets up kernel page table)
 - mappages (adds translations to page table)
 - walkpgdir (allocates and maps page)
 - kalloc (allocates page)
 - memset (clean new page)
- seginit (sets up segmentation table)
- tvinit (initializes interrupt table)
- kinit2 (frees pages)
 - freerange (frees pages)
 - kfree (frees single page)
- userinit (initialize the First Process)
 - allocproc (allocates new proc)
 - setupkvm (sets up kernel page table)
 - mappages (adds translations to page table)
 - walkpgdir (allocates and maps page)
 - kalloc (allocates page)
 - memset (clean new page)
 - inituvm (allocates and maps single page, and copies First Process code to it)
- mpmain
 - idtinit (sets %IDTR to point at existing interrupt table)
 - scheduler (runs runnable processes)
 - acquire (locks process table)
 - pushcli (makes us ignore interrupts)
 - switchuvm (prepares proc's kernel stack and makes TSS point to it)
 - swtch (saves current context on proc, and switch to new proc)
 - switchkvm (switches back to kernel page table)
 - release (unlocks process table)
 - popcli (makes us stop ignoring interrupts)

fork (creates child process)

- allocproc (allocates new proc)
- copyuvm (copies memory)
 - setupkvm (sets up kernel page table)
 - mappages *(adds translations to page table)
 - walkpgdir (allocates and maps page)

- kalloc (allocates page)
- memset (clean new page)
- walkpgdir (validate that page mapping exists, without allocating or cleaning)
- kalloc (allocate new page for user-code)
- memmove (copy page data)
- mappages (add user-code page)
- walkpgdir (maps page, without allocating or cleaning)
- freevm (free page table in case of error)
- deallocuvm ()
 - walkpgdir (get entry of internal page)
 - kfree (free actual page)
- kfree (free inner table)
- kfree (free outer table)
- kfree (if error, free kernel-stack)
- filedup
- idup
- safestrcpy