CPS321 - 2025 Spring - Midterm#1

DUE DATE: Feb. 28th (Fri.) no later than 11:59 PM EST via email or GitHub

REQUIREMENTS

- Individual work.
- **Print name** is required.
- The submission file should be titles: `CPS321_2025_Spring_Midterm#1_[PRINT NAME].zip/others` .
- All submissions will be sent to Fanchao (fmeng@misericordia.edu) via **email** or GitHub. Fanchao will confirm each submission.
- **Late submissions are NOT accepted** unless you have the permission from Fanchao.

Problems (100 points in total)

As discussed in class, before the OS kernel is started, the programs provided by BIOS are loaded in the memory and running. Interrupt routines are a part of the programs.

Questions:

- Are those interrupt routines provided by BIOS staying in the memory and used by the OS after the OS starts, or not?
- If you believe not, please use Linux 0.11/0.12 as an example to explain how interrupt routines are configured after the OS starts. Your explanation is required to be specific as much as possible using concrete code as justification.