Carefully read the code of I/O Dispatcher (program ioint.s) in Chapter 9. The current Xinu design is that all input (or all output) interrupts enter at the same point, i.e., they share the same dispatcher.

If each device has its own dispatcher, the dispatcher code becomes very simple.

(a) Write a dispatcher for one device, for example, input device #0. (All dispatchers have almost the same code, so writing just one would be enough to demonstrate your understanding.)

(b) Briefly discuss the advantage and disadvantage of this approach.

Hand in the assembler program with good comments.

Due April 28.