

## HW6 Answer Keys/Tips

### Q1

0x00400200: 0xFE542023

opcode: 010011 Instruction[6:0]

rs1: 01000

rs2: 00101

rd: 00000

immediate: 0xFFFFFE0

ALUOperation: 0b0010

BranchTarget: 0x004001E0

PCSrc: 0

NextPC: 0x00400204

Although we only work on one instruction in HW, practice with more instructions.

### Q2

The changes to PC and the register file are correct. Data memory is mistakenly changed. Find out how.

### Q3

The problem description has already provided a lot of hints.