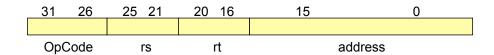
Instructor: Karim Ali



Question 1: (10 points)

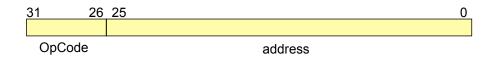
For the MIPS code given in Question ??, notice the bne and j instructions at the addresses 0x0040 0010 and 0x0040 0020 respectively. What are the hexadecimal representations of these instructions? To solve this problem, you need to recall that registers \$t3 and \$zero are mapped to register number 11 and 0, respectively. Also, you need to recall the formats and effects of branch and jump instructions. They are shown below.

a. (5 points) Branch Instruction



The opcode of bne instruction is 000101.

b. (5 points) Jump Instruction



The opcode of j instruction is 000010.