```
cs315 Week 11 - part (B)
   -> Hand assembly, jump address calculation
- address -
              - instruction -
                                      - machine code -
                                                                             - notes -
0x0040 81AC
                 jal r_in
                                   0000 11ii iiii iiii iiii iiii iiii
                                                                         ial 0x0040 B6CC
                                   0000 1100 0001 0000 0010 1101 1011 0011
                                                                             0x0040 B6CC = 0000 0000 0100 0000 1011 0110 1100 1100 =
   . . .
                                                                             1) remove first nibble 2) remove last 2 bits (word boundary)
   . . .
   . . .
                                                                             --> 0000 0100 0000 1011 0110 1100 11 <-- jump target address
0×0040 B6CC
              r_in: addi $9, $9, $0
Notes:
   1) remove the first nibble because addresses in .text (or assembly codes) section are in the following format:
       common in all addresses in .text, so no need to store
   2) remove last 2 bits because addresses are in word boundary, or divisible by 4
              --> 0000
              --> 0100
              --> 1000
              --> 1100
              zeros in the last 2 bits, so no need to store
```