• CPSC 275: Introduction to Computer Systems

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Fall 2025

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Solution to Homework 14

```
Cannot use %bl as address register
1. \text{ movb } \$0 \times F, (%b1)
  movl %ax, (%esp)
                       Mismatch between instruction suffix and register ID
  movw (%eax),4(%esp) Cannot have both source and destination be memory references
  movb %ah,%sh
                      No register named %sh
  movl %eax,$0x123
                      Cannot have immediate as destination
  movl %eax,%dx
                      Destination operand incorrect size
  movb %si, 8(%ebp)
                      Mismatch between instruction suffix and register ID
2. movl %eax, (%esp)
  movw (%eax), %dx
  movb $0xFF, %bl
  movb (%esp,%edx,4), %dh
  pushl $0xFF
  movw %dx, (%eax)
  popl %edi
3. Operand
                    Value
                    0x100
  %eax
  0x104
                    0xAB
  $0x108
                    0x108
  (%eax)
                    0xFF
  4(%eax)
                    0xAB
  9(%eax,%edx)
                    0x11
  260(%ecx,%edx)
                   0x13
                   0xFF
  0xFC(,%ecx,4)
  (\%eax,\%edx,4)
                    0x11
4. void decode1(int *xp, int *yp, int *zp) {
     int tx = *xp;
     int ty = *yp;
     int tz = *zp;
     *yp = tx;
     *zp = ty;
     *xp = tz;
```

• Welcome: Sean

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