- [CPSC 275: Introduction to Computer Systems](#)

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Fall 2025

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Solution to Homework 5

1.

```
Binary   Decimal Value
 000        +0
 001        +1
 010        +2
 011        +3
 100        −3
 101        −2
 110        −1
 111        −0
```

Zero has two representations, which complicates comparisons, equality checks, and arithmetic.

2.
   - A. 0
   - B. 5
   - C. 13
   - D. 15
3.
   - A. 0
   - B. 5
   - C. -3
   - D. -1
4.
   - A. `0011101`
   - B. `1100011`
   - C. -64 to +63
5.
   - A. -43
   - B. -64
6.
   - A. 180
   - B. -52
   - C. -75
   - D. -76

- **Welcome: Sean**

  - [LogOut](#)