## Model 1 Objects

Consider the definition for a playing card:

```
public class Card {
    private int rank;  // 1=Ace, ..., 11=Jack, 12=Queen, 13=King
    private int suit;  // 0=Clubs, 1=Diamonds, 2=Hearts, 3=Spades

public Card(int rank, int suit) {
        this.rank = rank;
        this.suit = suit;
    }
}

Here is a memory diagram of a Card object:
    Card card = new Card(8, 1);
    card
    suit 1
```

## Questions (15 min)

**Start time:** 

- 1. Which card (i.e., "the \_\_\_\_\_\_of \_\_\_\_") is represented in the diagram?
- 2. In one line of code, show how you would construct the "4 of Clubs".
- **3**. What is the difference between lowercase card and uppercase Card? Explain in a few sentences how these concepts are illustrated in the diagram.

4. How are arrays and objects similar? How are arrays and objects different? Explain your answer in terms of how they are drawn in memory diagrams.

