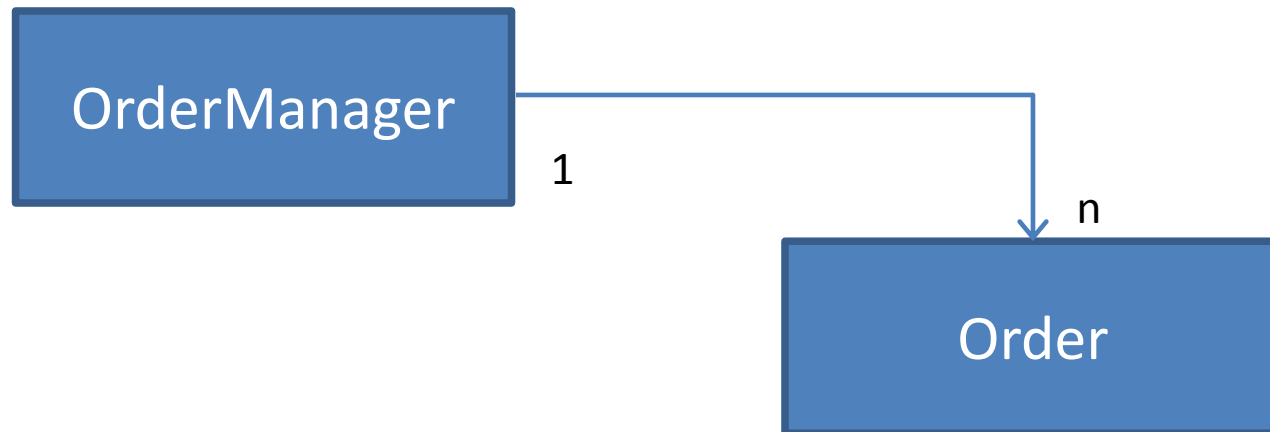


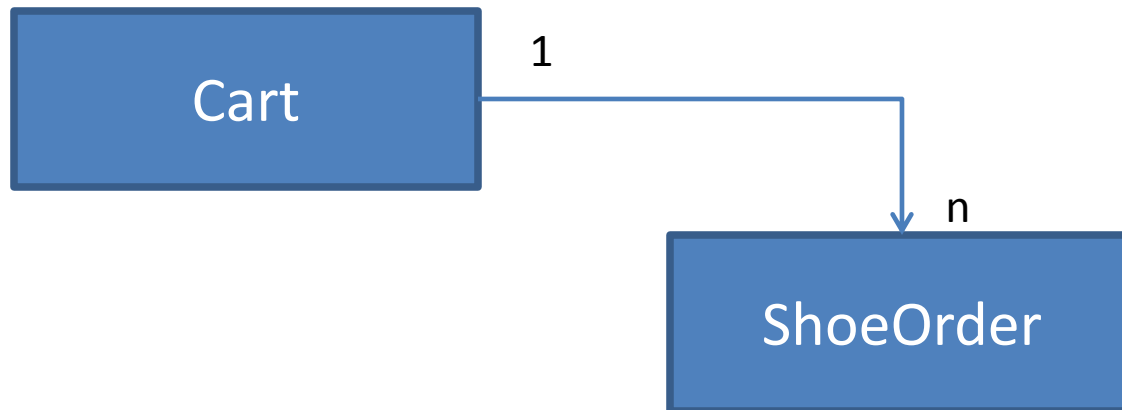
Problem #1

A company sells shoes online (like zappos.com). You are writing a software system to handle the orders that come into the shoe stores warehouse. When an order is submitted by a customer, it is added to the outstanding orders. The orders will be filled in the same order in which they were placed by customers.



Problem #2

You did such a good job with order processing for the shoe company they know want you to revamp their e-commerce site. As part of the e-commerce site, you need to maintain a customer cart. Any given kind of shoe can appear only once in the cart but with each kind of shoe the number of pairs placed in the cart is given.



Problem #3

You are implementing an email client. Your email client maintains the messages in the order they were received.

