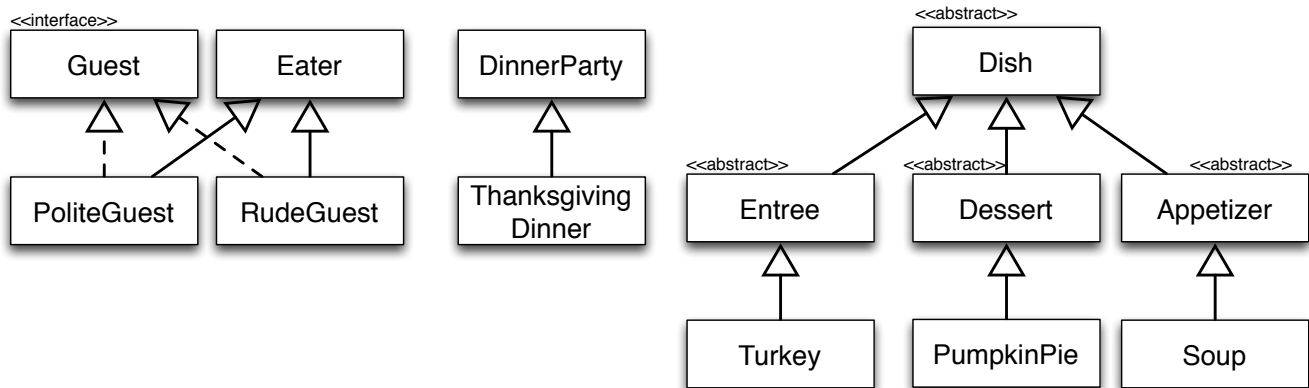


1.



2. Would compile: a) iii, vi b) i, ii  
Won't compile:

- a)i — Guest is an interface
- a)ii — Guest is not a subtype of PoliteGuest
- a)iv — Turkey is not a subtype of Soup
- a)v — Appetizer is an abstract class

3.

- Set up a new Eater. (`Eater e = new Eater()`)
- Determine initial hunger level of the Eater. (`int hunger = e.getHunger()`)
- Make a new dish (`Dish d = new Soup()`)
- Determine food value of that dish. (`int foodValue = dish.getFoodValue()`)
- Call eat on that new Eater. (`e.eat(d)`)
- Use an assertion statement to check that the Eater's hunger has decreased by the food value. (`assertTrue(e.getHunger == hunger - foodValue)`)

4. Requires: Nothing.  
Modifies: This or this.guests  
Effects: Each dish is served to each guest.

5a. Making soup!  
Serving appetizer  
Soup!  
Thank you. This looks lovely!  
Slurp Slurp  
Done eating

5b (one option):

```

private void serveCourse(Dish d, Guest g){
    //anything local to this block must be in the parameter list
    g.serve(d);
    d.waitForEatingTime();
    g.clear(d);
    //return value must be returned if there is one
}
  
```

5c (the call for the above option) (return value and parameters must match)  
`this.serveCourse(dish, guest)`