

Code Review of OrderManagement

Duplicate problem:

1. Program.OrderXXXInput can be merged as one method by passing parameters, e.g. OrderShapeInput(shape);
2. Since Order.ToString(), no need to pass customerName, address, dueDate parameters in InvoiceReport(customerName, address, dueDate, orderedShapes), e.g. InvoiceReport(orderedShapes);
3. Shape.AdditionalChargeTotal method isn't used, can be removed.
4. Invoice.OrderXXXDetails can be merged as one method by passing parameters, e.g. OrderShapeDetails(shape);

User input validity check:

5. Number of shapes: int type (e.g.Regex reg = new Regex("^([0-9]+\$"));
6. Price of Shapes: decimical type;
7. Order date: DateTime type.
8. Exception input management, when enter a string instead of a number correctly.

Confusion of object attributes:

9. NumberOfColorShape actually are not the attributes of Shape class, they should be moved to Order class.
10. I would like class XXXReport to inherit from Report class.

Other Questions:

11. Hard-coded/complex names everywhere which are not followed name rules.
12. Use private or protected to replace public, unless special reasons.
13. Override Order.ToString(), because it is inherited from Object.ToString().

Suggestions:

14. Print methods can be moved into another class, e.g.help.cs.
15. NumberOfColorShape is not extendable, use Dictionary<Color,int>.
16. Considering refactor, e.g. rename, move class, extract method.
17. Robustness when input or convert.