Instructions

Mega Escritorio

You will be designing and developing a console application for a fictitious company, Mega Escritorio. The purpose of this application is to determine the price quotes for custom desks. The **scope** and functional specifications of the application include:

* users can specify the size (width and length) of the desk in inches,
* users can choose between zero and seven drawers,
* users can select between three surface materials (laminate, oak, or pine), and
* users can choose rush order options of 3, 5, or 7 days given the normal production time is 14 days.

Your final, individual submission must meet the following assignment requirements and development specifications for full credit.

* Plan with a design document using a UML-based methodology and post your model/pseudocode to the peer review discussion board.
* The application must be a C# console application using MS Visual Studio.
* Read the rush order price table into an two-dimensional array from this [Text File](https://byui.brightspace.com/content/enforced/209838-Online.2017.Winter.CIT301C.02/Course%20Files/ProjectFiles/rushOrderPrices.txt?_&d2lSessionVal=tbMZkGpSuCPDvJhWOGiqqrkEx&ou=209838). The price structure is displayed in one of the tables below.
* Use methods for each functional specification that return values to the main line.
* Validate and use exception handling for all input.
* Display the complete order on the screen **and** store that order in an appended text file written in JSON format.

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| **Pricing Structure** | | |
| Base Desk Price | $ 200 | each |
| Desktop Surface Area > 1000 in2 | $ 5 | per in2 |
| Drawers | $ 50 | per drawer |
| **Surface Materials** | | |
| Oak | $ 200 | |
| Laminate | $ 100 | |
| Pine | $ 50 | |

|  |  |  |  |
| --- | --- | --- | --- |
| **Rush Order** | **Size of Desk (in2)** | | |
| < 1000 | 1000 to 1999 | 2000+ |
| 3 Day | $ 60 | $ 70 | $ 80 |
| 5 Day | $ 40 | $ 50 | $ 60 |
| 7 Day | $ 30 | $ 30 | $ 40 |