

Desk
+SurfaceMaterial: string
+Width:float
+Depth: float
+numDrawers: int
DeskArea()

DeskQuote
+RushOrder: int
+CustomerFullName: string
+QuotePrice: float
+QuoteDate: Date
CalculatePrice()

Pseudo code

Calculate desk surface area (width * height)

SET baseDeskPrice -> \$200

SET Drawers-> \$50

If surface area is greater than 1000 square inches, add \$1 per each square inch and \$ 50 additional drawer.

If surface material is oak, laminate, pine, rosewood, and veneer add respectively to the desk's price the following price \$200, \$100, \$50, \$300, and \$125.

If production days is less than 14

If the surface area is less than 100, increase the price based on the production days to the following:

3 day -> 460

5 day -> \$40

7 day -> \$30

If the surface area is greater or equals to 1000 and equals or less than 2000, increase the price on production days.

3 day-> \$70

5 day-> \$50

7 day -> \$35

If the surface area is greater than 2000, increase the price on the production days

3 day-> \$80

5 day-> \$60

7 day-> \$40