

Exercise 3

Programming III in C++

Computer Science

The following records show a part of a warehouse stock:

No	Description	Actual Stock	Maximum Stock	Cost Price	Consumption per Day	Order Duration
100	couch C	31	75	350,00 €	5	7
101	Stool A	52	150	33,95 €	12	3
102	cabinet D	77	100	160,50 €	3	21
103	chair B	4	90	175,00 €	7	8
104	table A	28	120	99,95 €	5	12

- Develop a class *Article* with the attributes *numberOfArticel*, *description*, *costPrice* and *orderDuration*.
- Develop a class *Stock* with the attributes *articleNumber*, *actualStock*, *maximumStock* and *consumption*.
- Create a way to read in the above stock file
- Calculate the total stock value
- Create a stock file in which additional columns for the *reorder point* and an *order proposal* are added.

The *reorder point* is calculated from the consumption per day and the order duration, whereby an additional 2 days reserve is calculated. An order proposal has to be generated if the actual stock is less than or equal to the reorder point. The order proposal is then calculated from the difference between the actual stock and the reorder point.