HOMEWORK 2

Consider a company facing a demand pattern and costs as follows:

Month	Sequential Number	Requirements (units)
January	1	20
February	2	40
March	3	110
April	4	120
May	5	60
June	6	30
July	7	20
August	8	30
September	9	80
October	10	120
November	11	130
December	12	40
	Total	800

A_t	$25.00
h_t	$ 0.20

a. Construct a replenishment schedule and calculate the associated costs using the Lot for Lot method.
b. Repeat using the Fixed Economic Order Quantity method.
c. Repeat using the Periodic Order Quantity method.
d. Repeat using the Wagner–Whitin Algorithm. (***Note****: Students are required to solve this problem step-by-step similar to the lecture note.*)