

# [Baron falcon dart, llc (case study)](https://assignbuster.com/baron-falcon-dart-llc-case-study/)

[Engineering](https://assignbuster.com/essay-subjects/engineering/)

Production Engineers Ralph W. Blackberries, Director RE: Master scheduling August Information This is a summary of what Falcon King’s production schedule looked like in the month of August. The company is going out of business at the end of October.
Production sequence
Begin inventory
Production
Demand
End
inventory
A dart
1, 200
0
1, 200
0
Third
B dart
0
600
650
0
Second
BLUE
0
1, 000
1, 000
0
First
GREEN (was set up at beginning of month))
0
400
240
160
WHITE
0
0
0
0
Accepted orders
The company has accepted the following orders for the months of September and October.
Sept.
Oct.
A
100
1, 000
B
400
600
BLUE
200
1000
GREEN
100
1250
WHITE
200
300
Assignments
1) Develop a master schedule for the months of September and October. The objective is to maximize profits over these months. According to company policy, there must be zero inventories at the end of October as the company will have no room to store merchandise.
2) Provide recommendations from a LEAN PERSPECTIVE
A summary of setup, sales price, material cost, and estimated holding costs is provided in the table below.
Setup time, sales price, and cost info
Product
Set up time
Production rate
Sales price
Material cost
Shortage policy
Holding cost
A
40 hr
5 darts/hr
$8/dart
$5/dart
Lost sale
(no backlogging)
$100 flat fee if EndInv