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[okalikhan@mtrx-node04pd MS3]$ date
Sun Dec 1 20:32:14 EST 2019
[okalikhan@mtrx-node04pd MS3]$ g++ -std=c++11 ms3.cpp Utilities.cpp Item.cpp CustomerOrder.cpp Task.cpp LineManager.cpp -Wall -o ms3
[okalikhan@mtrx-node04pd MS3]$ ms3 Inventory1.dat Inventory2.dat CustomerOrders.dat AssemblyLine.dat
Command Line: ms3 Inventory1.dat Inventory2.dat CustomerOrders.dat AssemblyLine.dat

```

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=====
=   Tasks (summary)   =
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```

CPU           [123456]
Memory        [654321]
GPU           [056789]
SSD           [987654]
Power Supply  [147852]

```

```

=====
=   Tasks (full)     =
=====

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```

CPU           [123456] Quantity: 5      Description: Central Processing Unit
Memory        [654321] Quantity: 10     Description: Basic Flash Memory
GPU           [056789] Quantity: 7      Description: General Porcessing Unit
SSD           [987654] Quantity: 5      Description: Solid State Drive
Power Supply  [147852] Quantity: 20     Description: Basic AC Power Supply

```

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=====
= Manual Validation =
=====

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```

getName(): CPU
getSerialNumber(): 123456
getSerialNumber(): 123457
getQuantity(): 5
getQuantity(): 4

```

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=====
=       Orders       =
=====

```

```

Elliott C. - Gaming PC
[000000] CPU           - MISSING
[000000] Memory        - MISSING
[000000] GPU           - MISSING
[000000] GPU           - MISSING
[000000] GPU           - MISSING
[000000] SSD           - MISSING
[000000] Power Supply  - MISSING
Chris S. - Laptop
[000000] CPU           - MISSING
[000000] Memory        - MISSING
[000000] SSD           - MISSING
[000000] Power Supply  - MISSING
Mary-Lynn M. - Desktop PC
[000000] CPU           - MISSING
[000000] Memory        - MISSING
[000000] Power Supply  - MISSING
Chris T. - Micro Controller
[000000] GPU           - MISSING
[000000] GPU           - MISSING
[000000] Power Supply  - MISSING
[000000] SSD           - MISSING

```

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=====
=   Validate Tasks   =
=====

```

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CPU --> GPU
Memory --> SSD
GPU --> Memory
SSD --> END OF LINE
Power Supply --> CPU

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=====
=   Filling Orders   =
=====
Filled Elliott C., Gaming PC[Power Supply]
Filled Elliott C., Gaming PC[CPU]
Filled Chris S., Laptop[Power Supply]
Filled Chris S., Laptop[CPU]
Filled Elliott C., Gaming PC[GPU]
Filled Elliott C., Gaming PC[GPU]
Filled Elliott C., Gaming PC[GPU]
Filled Mary-Lynn M., Desktop PC[Power Supply]
Filled Mary-Lynn M., Desktop PC[CPU]
Filled Elliott C., Gaming PC[Memory]
Filled Chris T., Micro Controller[Power Supply]
Filled Chris S., Laptop[Memory]
Filled Elliott C., Gaming PC[SSD]
Filled Mary-Lynn M., Desktop PC[Memory]
Filled Chris T., Micro Controller[GPU]
Filled Chris T., Micro Controller[GPU]
Filled Chris S., Laptop[SSD]
Filled Chris T., Micro Controller[SSD]

=====
=   Completed Orders   =
=====
Elliott C. - Gaming PC
[123458] CPU           - FILLED
[654321] Memory        - FILLED
[567890] GPU           - FILLED
[567900] GPU           - FILLED
[567910] GPU           - FILLED
[987654] SSD           - FILLED
[147852] Power Supply  - FILLED
Chris S. - Laptop
[123459] CPU           - FILLED
[654322] Memory        - FILLED
[987655] SSD           - FILLED
[147853] Power Supply  - FILLED
Mary-Lynn M. - Desktop PC
[123460] CPU           - FILLED
[654323] Memory        - FILLED
[147854] Power Supply  - FILLED
Chris T. - Micro Controller
[567920] GPU           - FILLED
[567930] GPU           - FILLED
[147855] Power Supply  - FILLED
[987656] SSD           - FILLED

=====
=   Inventory (full)   =
=====
CPU           [123461] Quantity: 1      Description: Central Processing Unit
Memory        [654324] Quantity: 7      Description: Basic Flash Memory
GPU           [056794] Quantity: 2      Description: General Porcessing Unit
SSD           [987657] Quantity: 2      Description: Solid State Drive
Power Supply  [147856] Quantity: 16     Description: Basic AC Power Supply

[okalikhan@mtrx-node04pd MS3]$

```