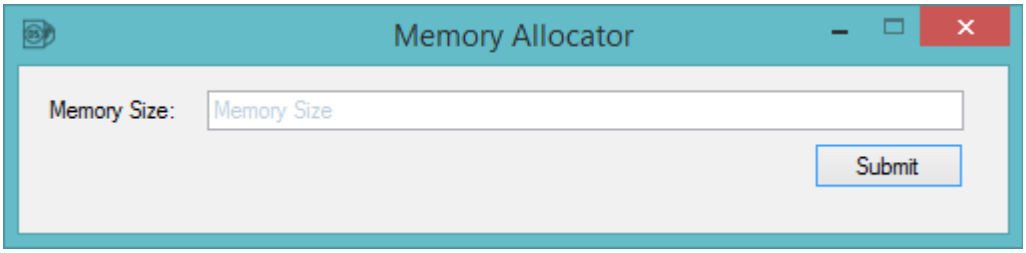
This is the documentation for

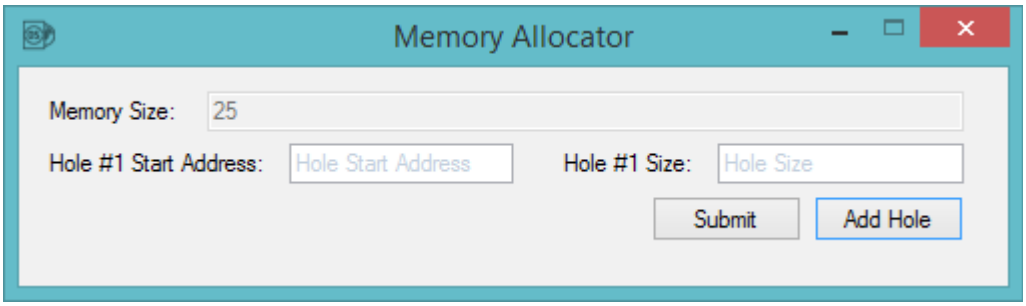
OPERATING SYSTEMS MEMORY ALLOCATOR

How to use it:

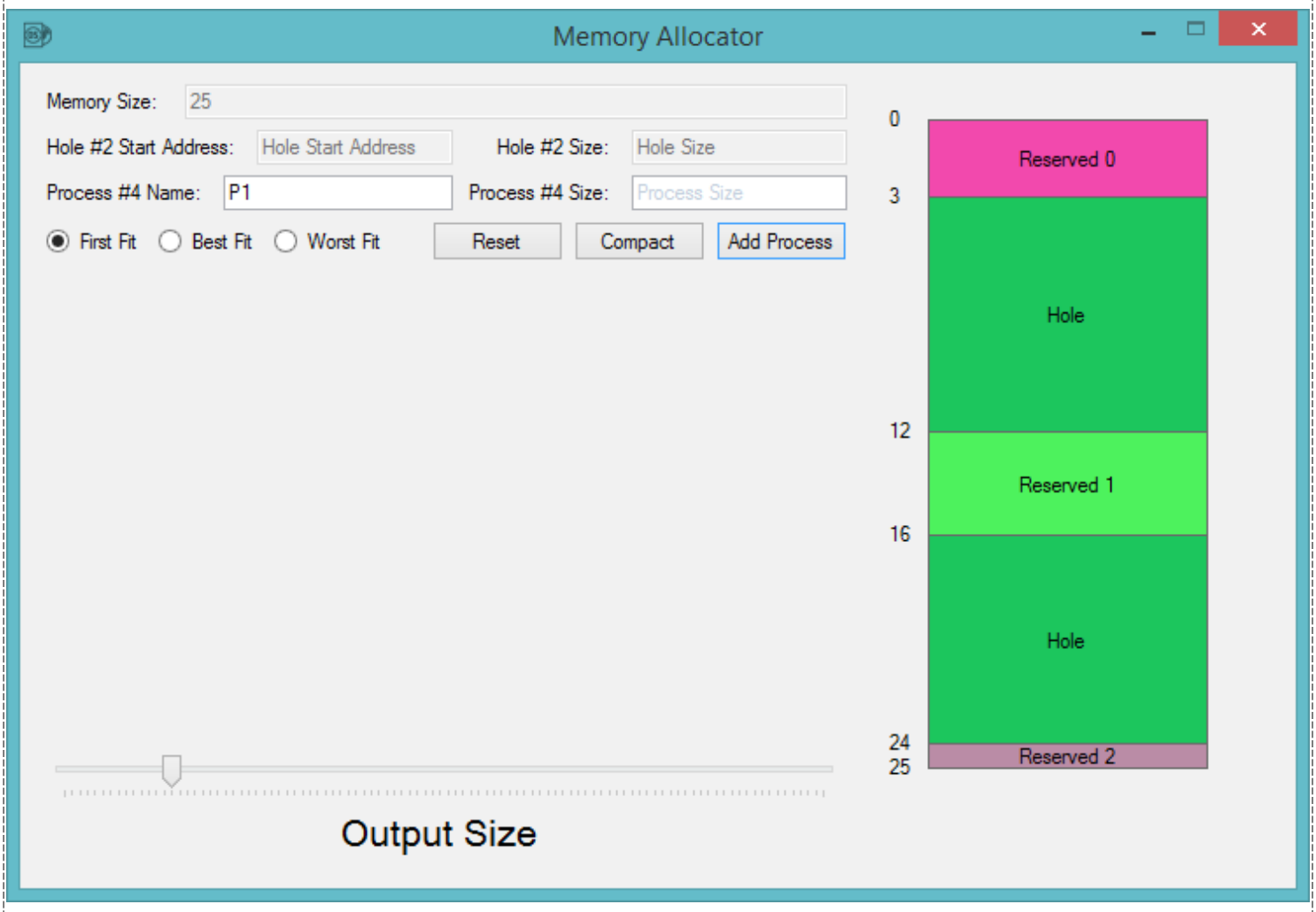
- Open memory-allocation-gui-app.exe .



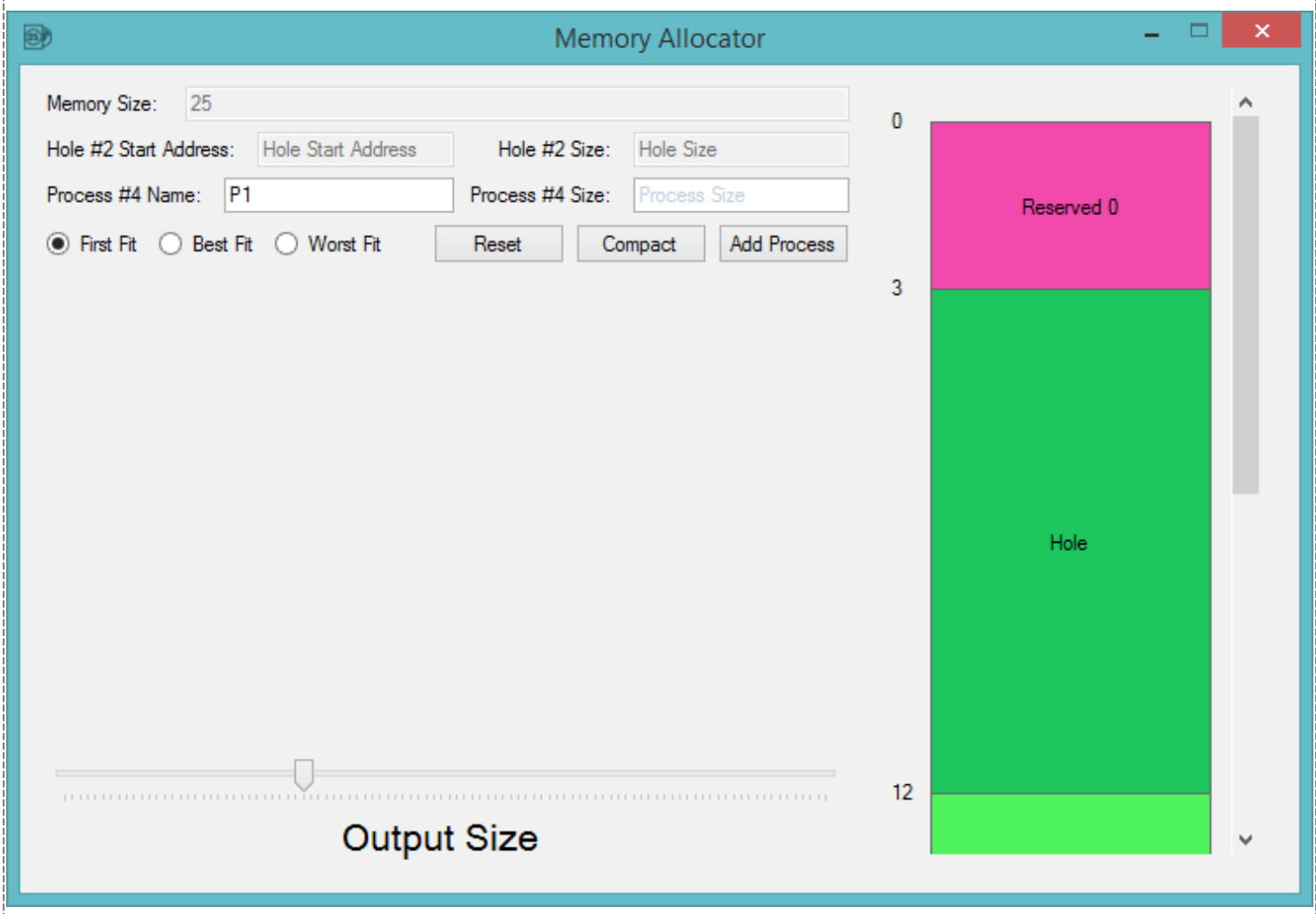
- Choose a memory size and click on Submit .



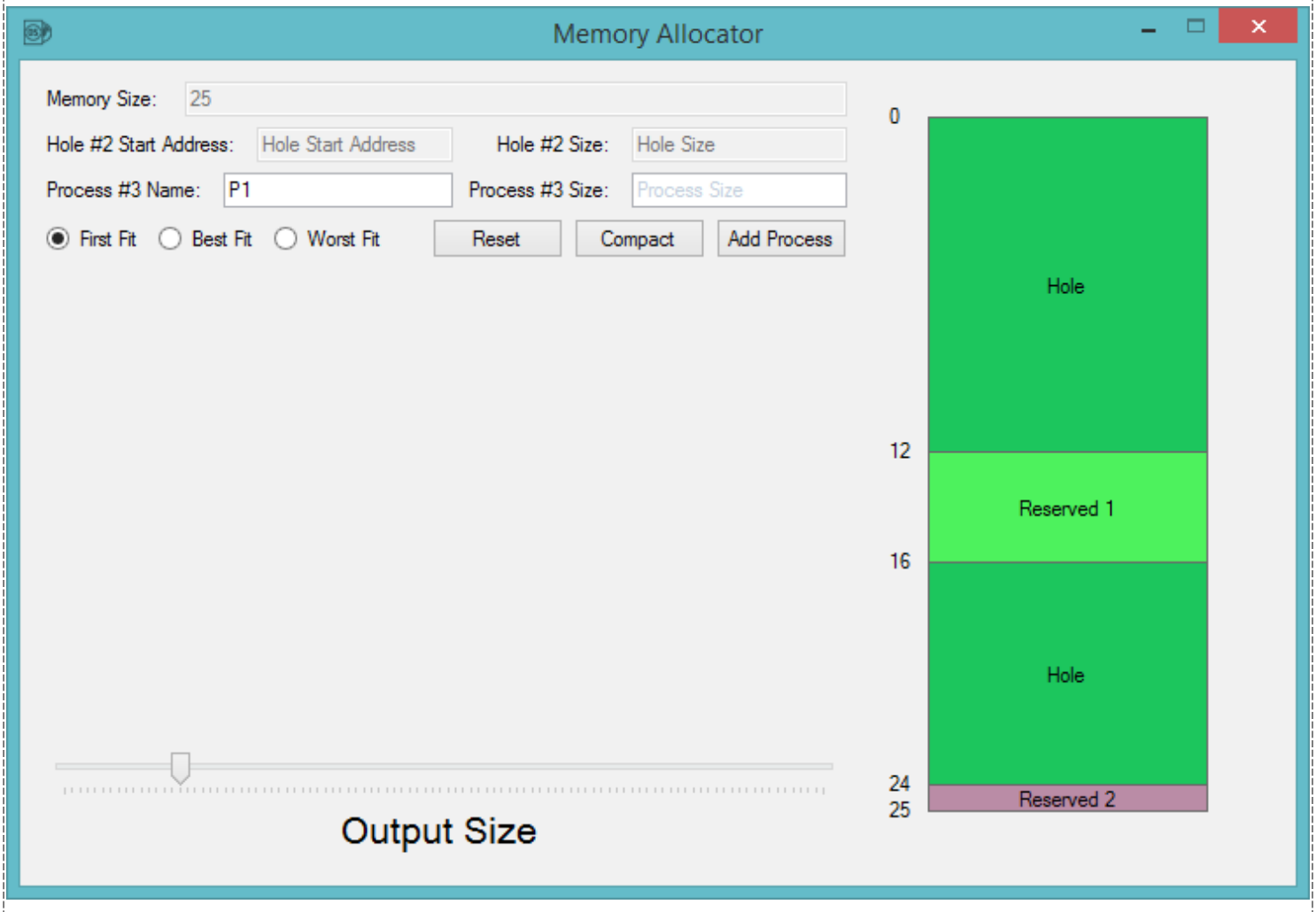
- Add as many holes as you want than click Submit again.



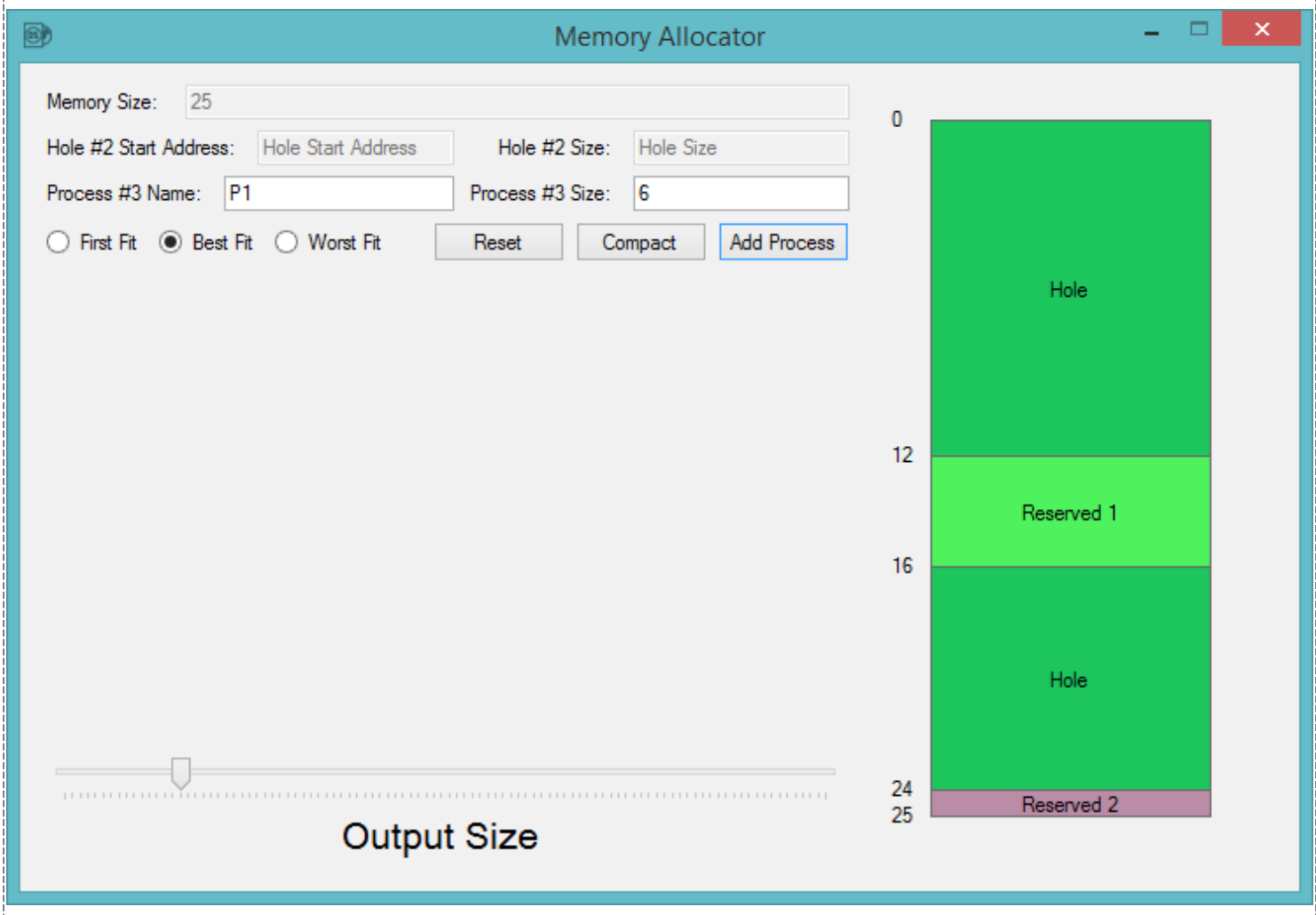
- You can resize the output memory graph using the scroll bar.



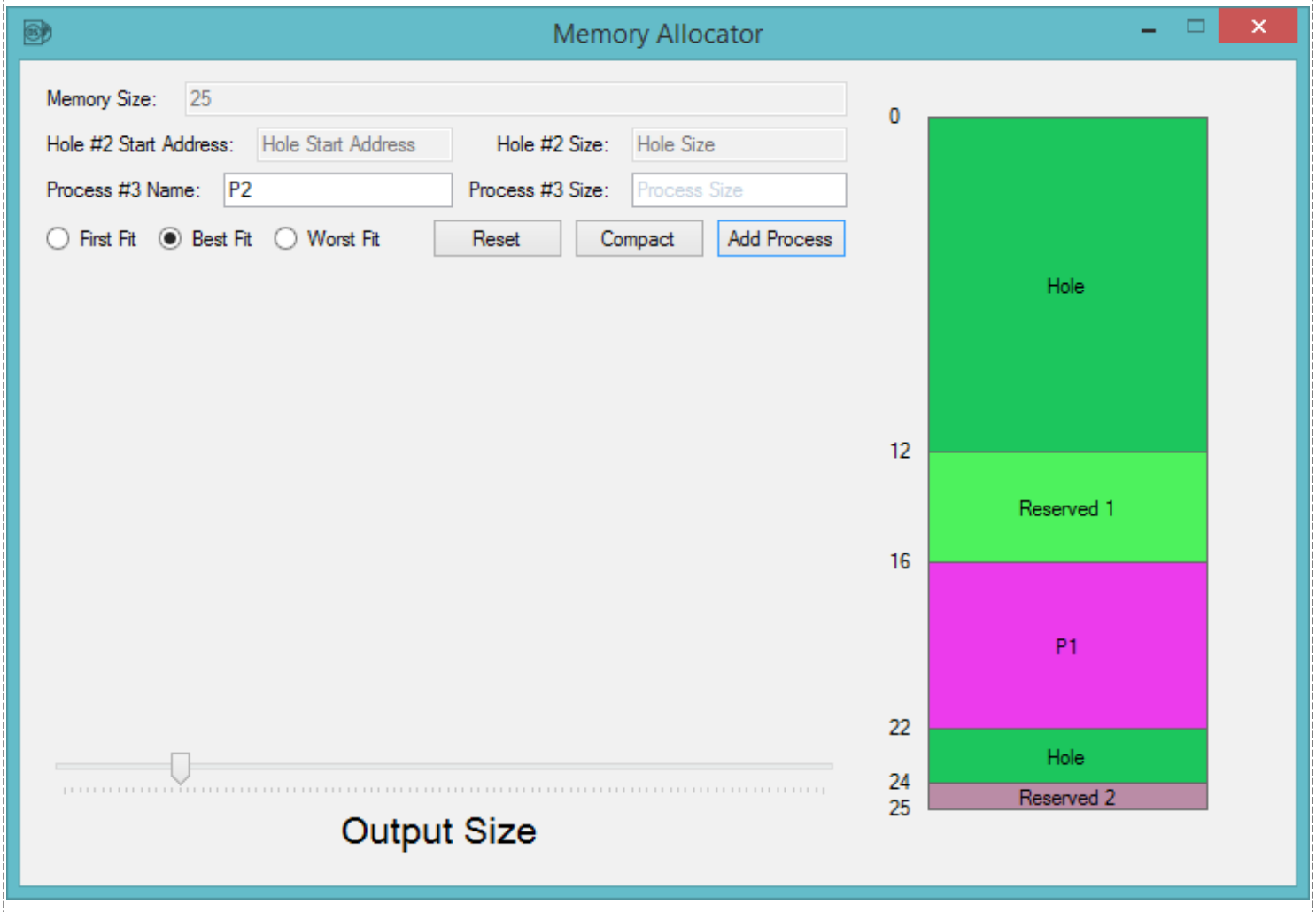
- You can remove a process from the memory by double clicking on it.



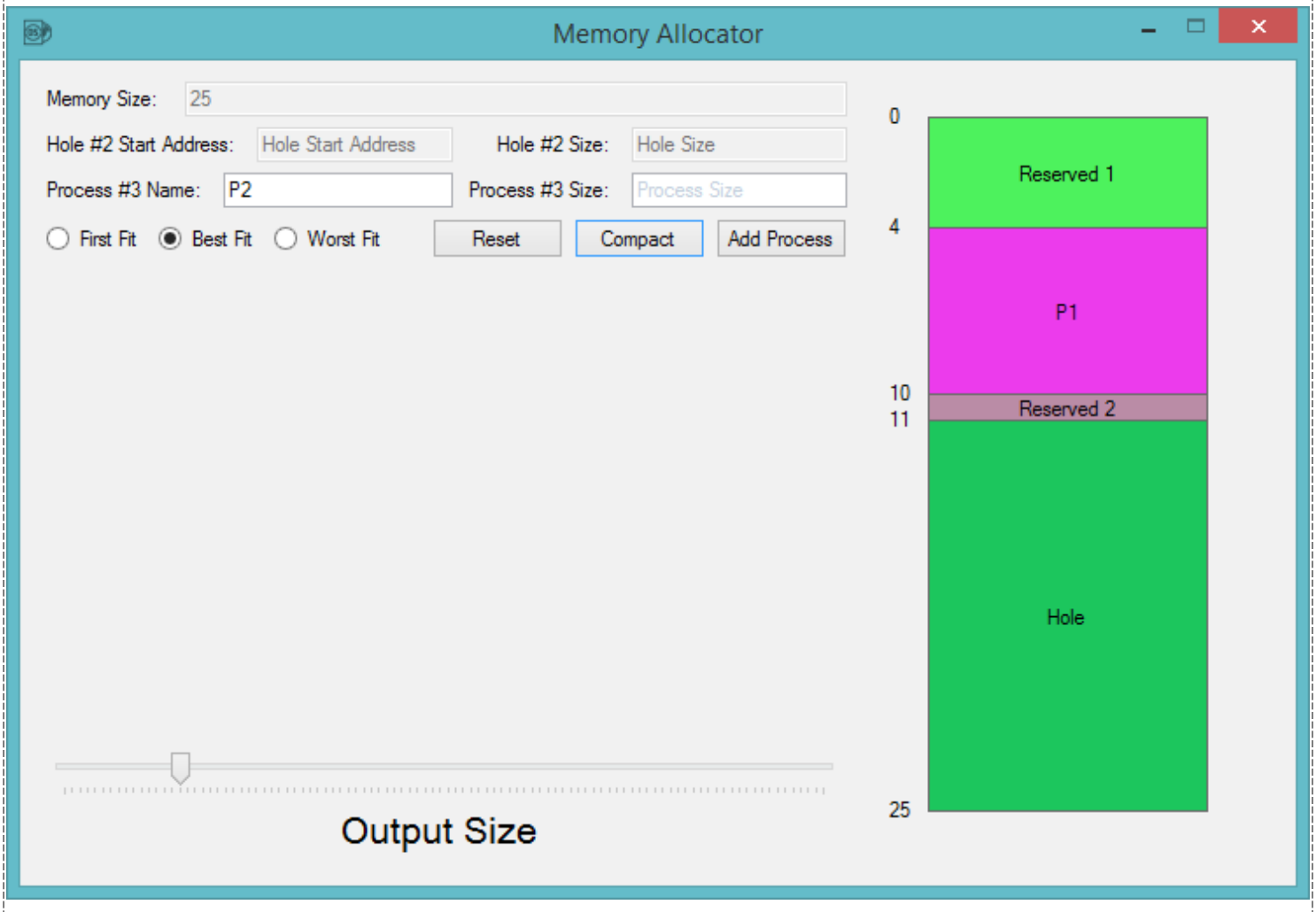
- To input a new process choose a name and a size then choose the allocating algorithm and click on Add Process .



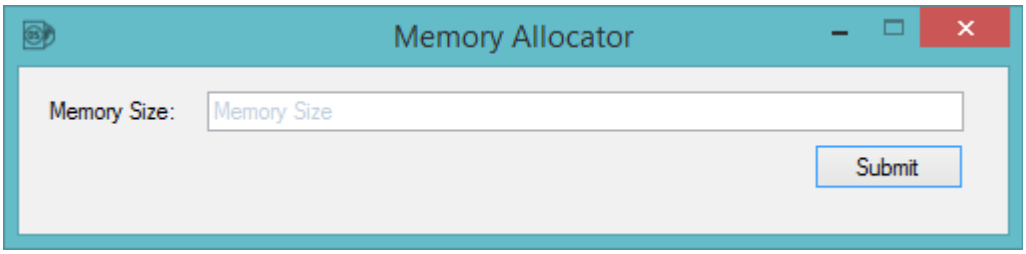
- And it will appear on the memory graph.



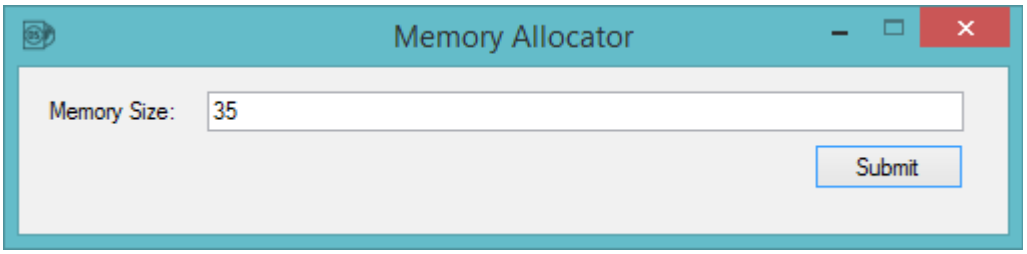
- You can also compact the memory to move all holes in the back.

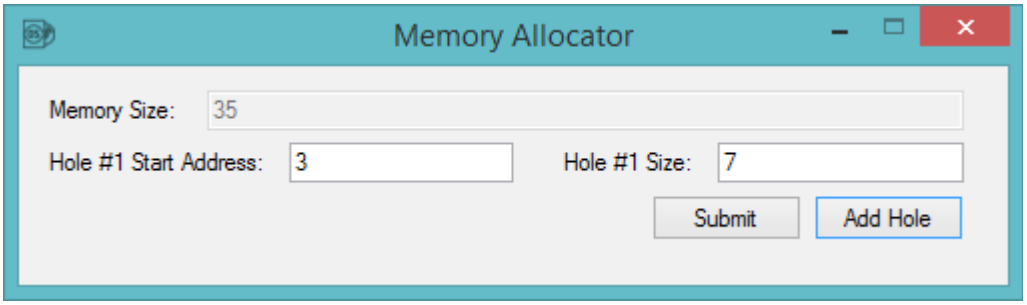


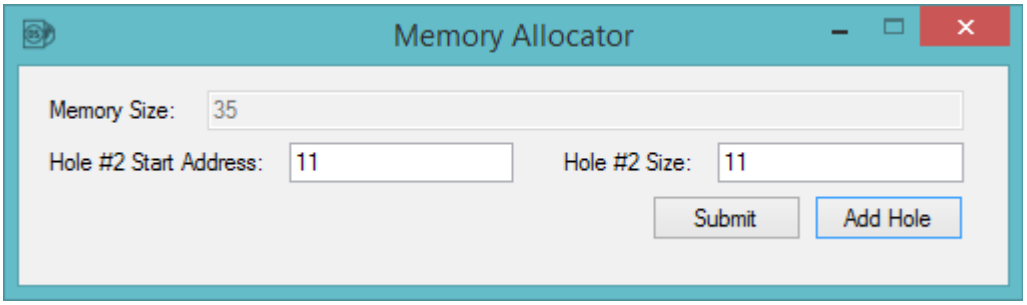
- When you finish testing you can click on Reset to start a new session.

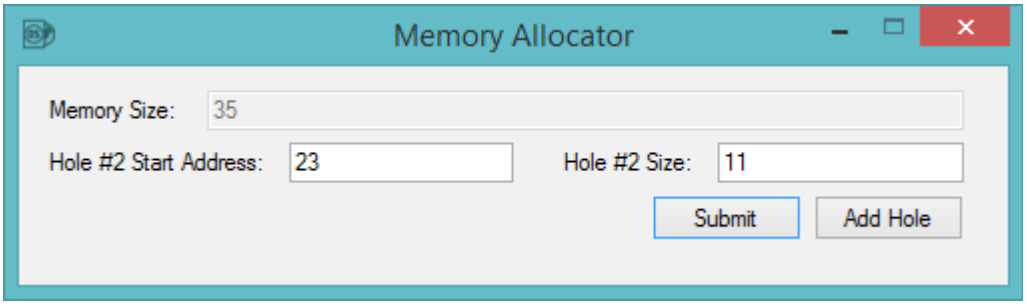


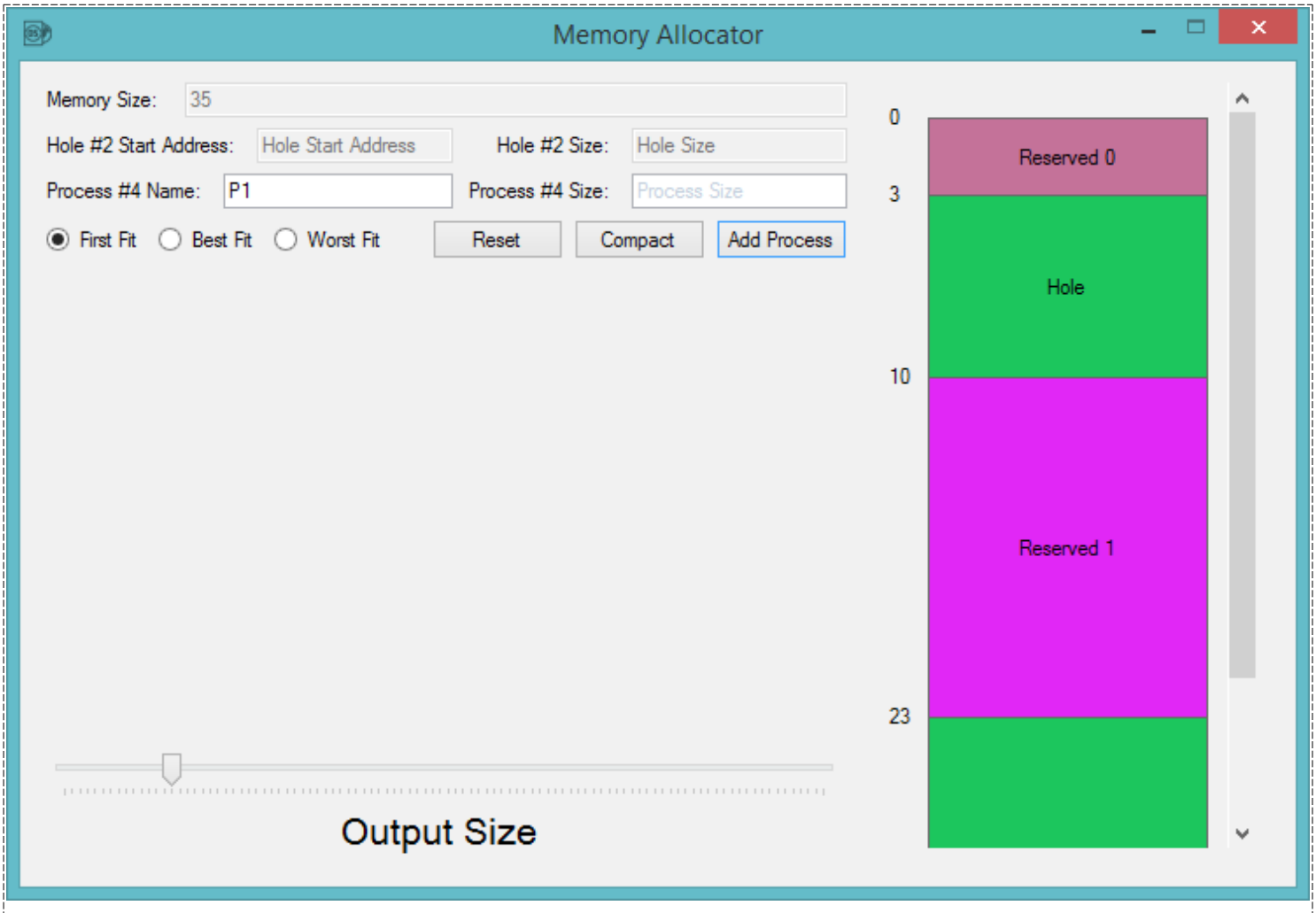
Screenshots:

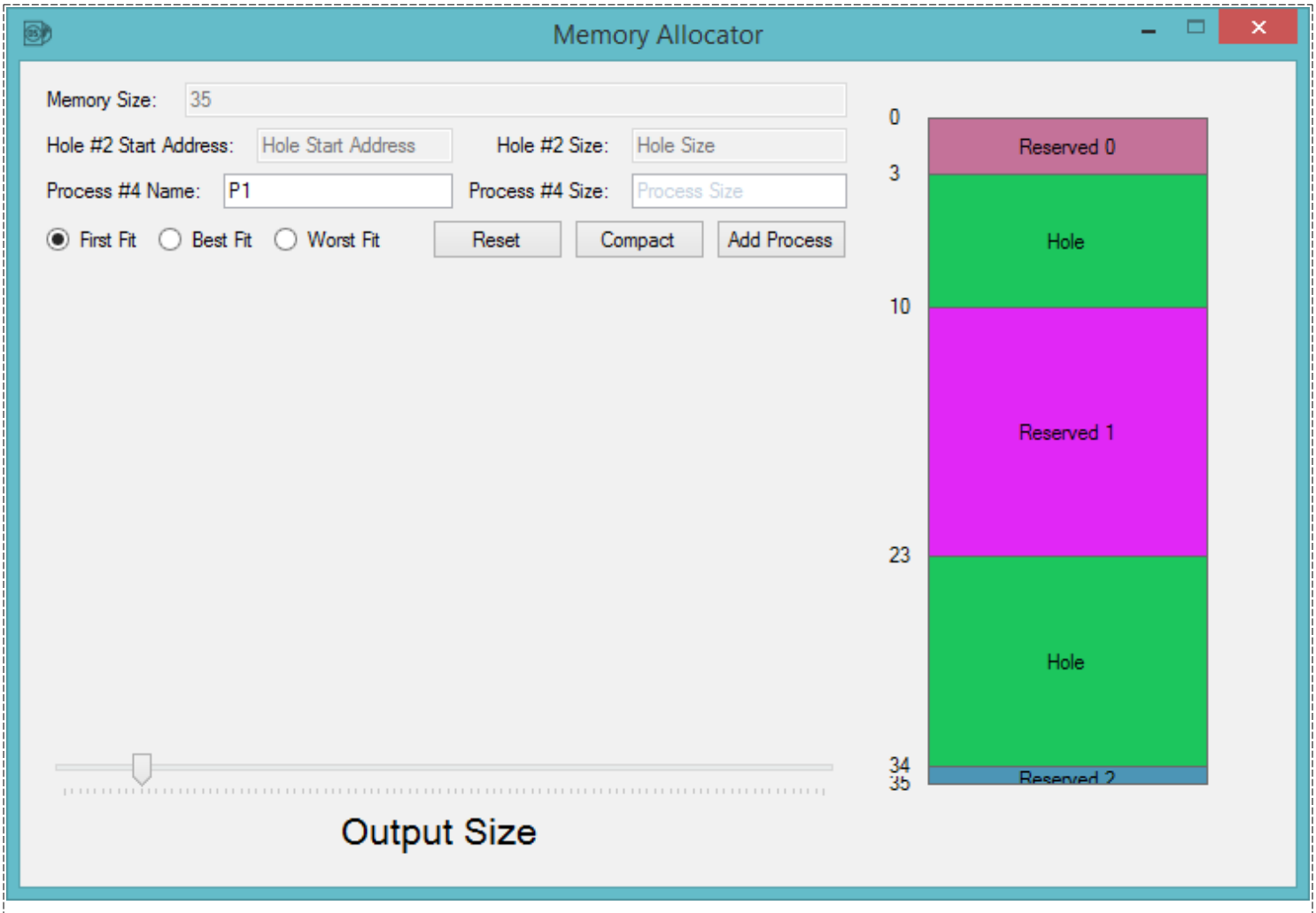


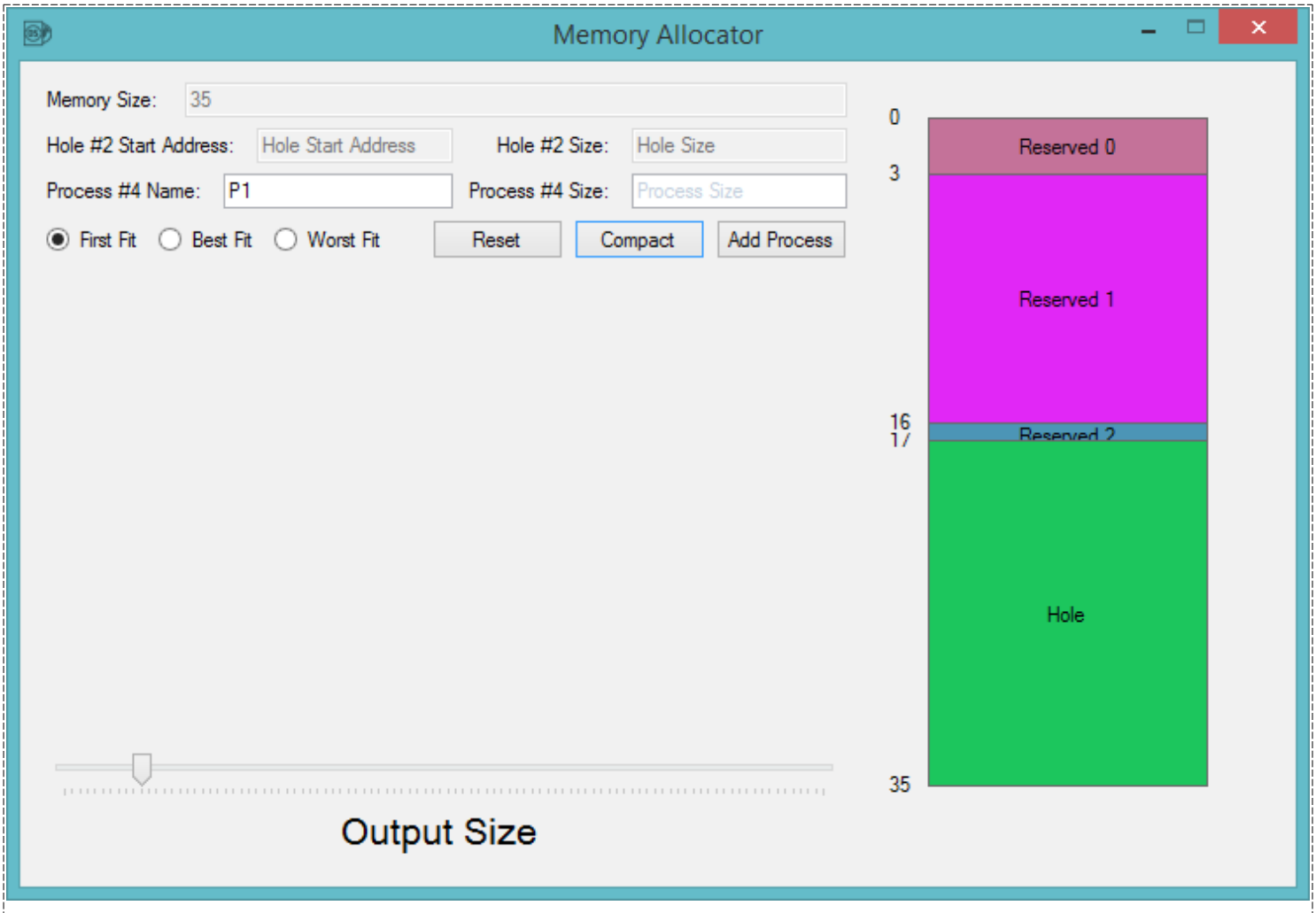


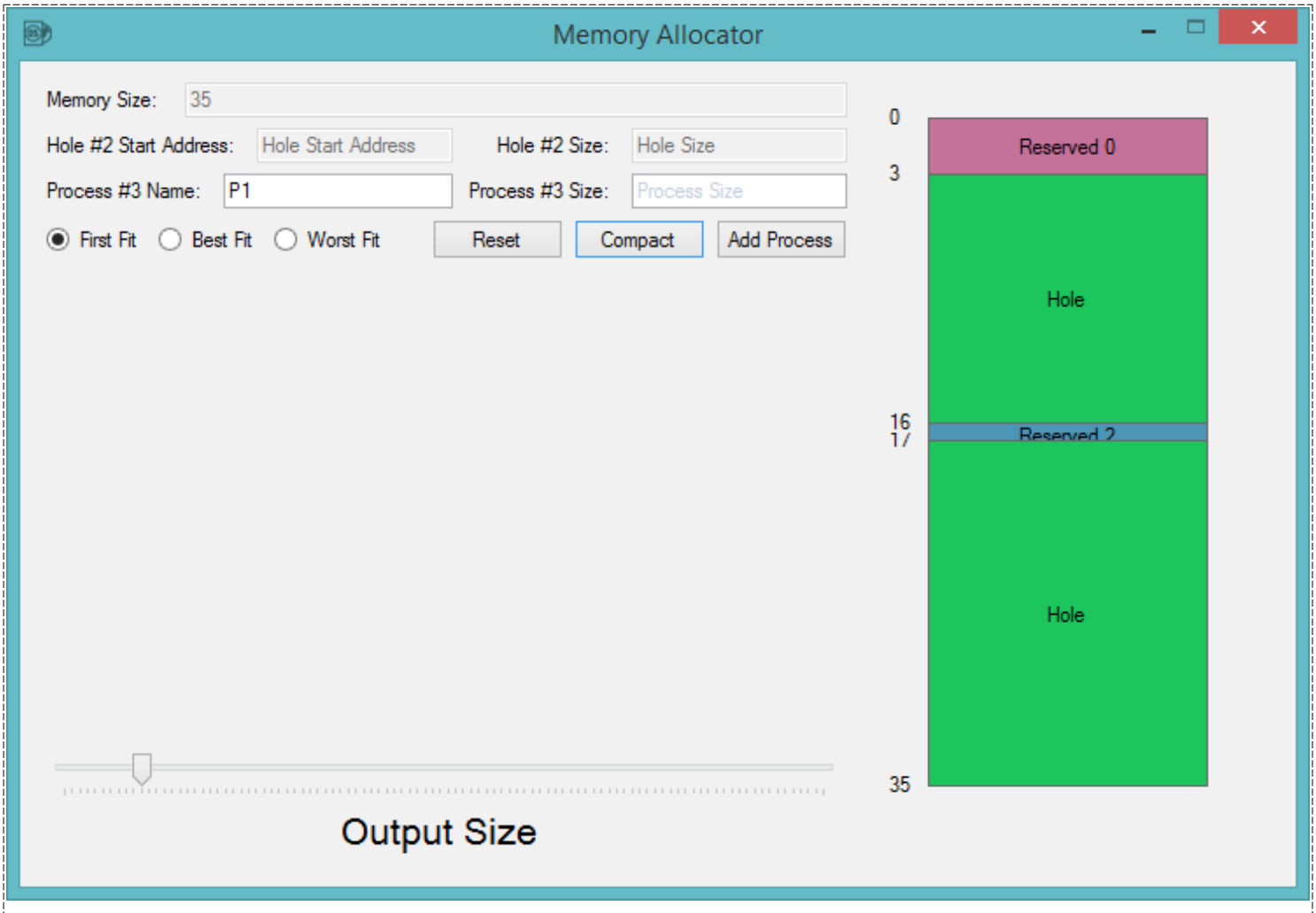


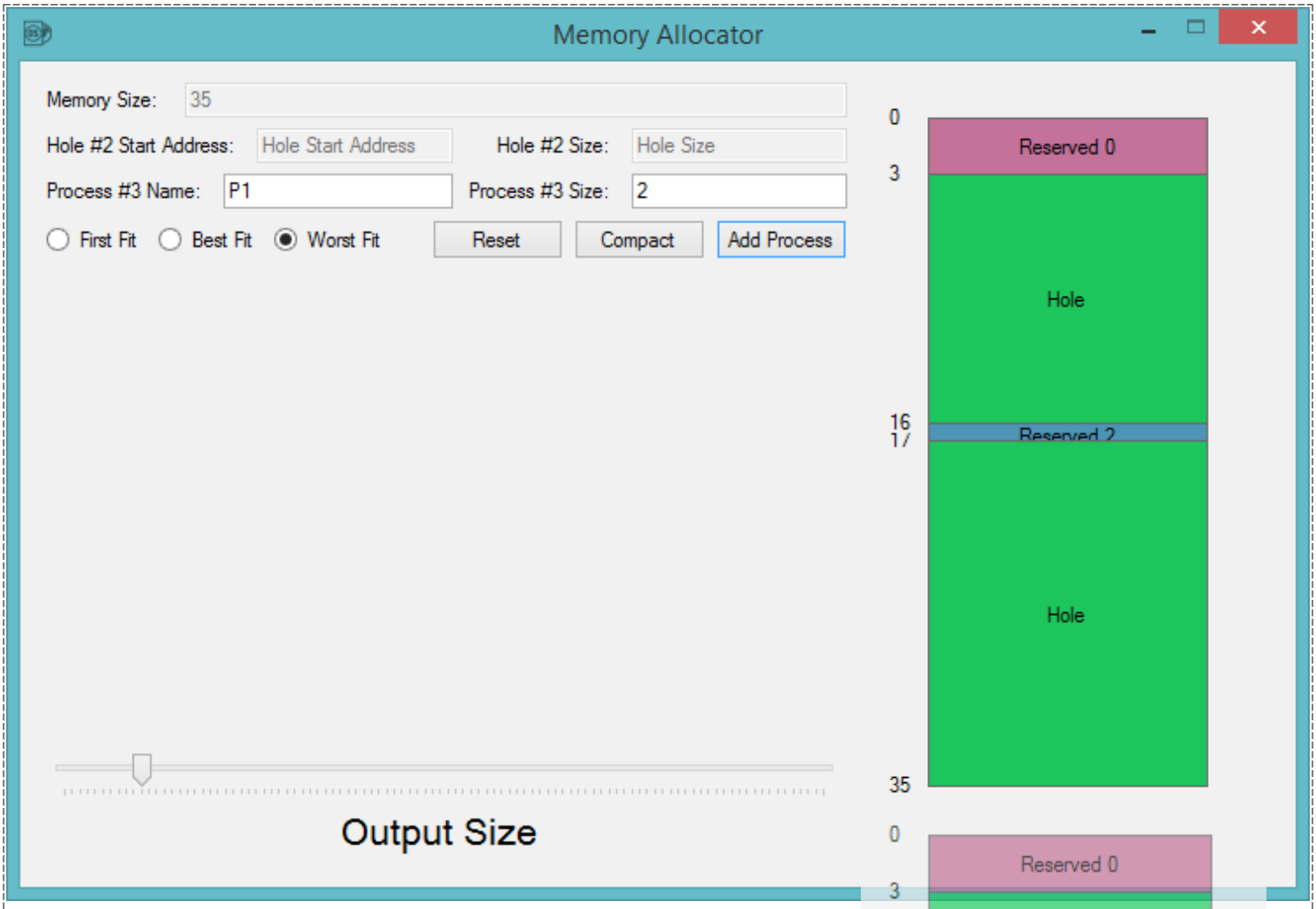



Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #4 Name:
P1
Process #4 Size:
Process Size
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
3
10
23
Reserved 0
Hole
Reserved 1


Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #4 Name:
P1
Process #4 Size:
Process Size
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
3
10
23
34
35
Reserved 0
Hole
Reserved 1
Hole
Reserved 2


Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #4 Name:
P1
Process #4 Size:
Process Size
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
Reserved 1
16
17
Reserved 2
Hole
35


Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #3 Name:
P1
Process #3 Size:
Process Size
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
Hole
16
17
Reserved 2
Hole
35


Memory Allocator
Memory Size:
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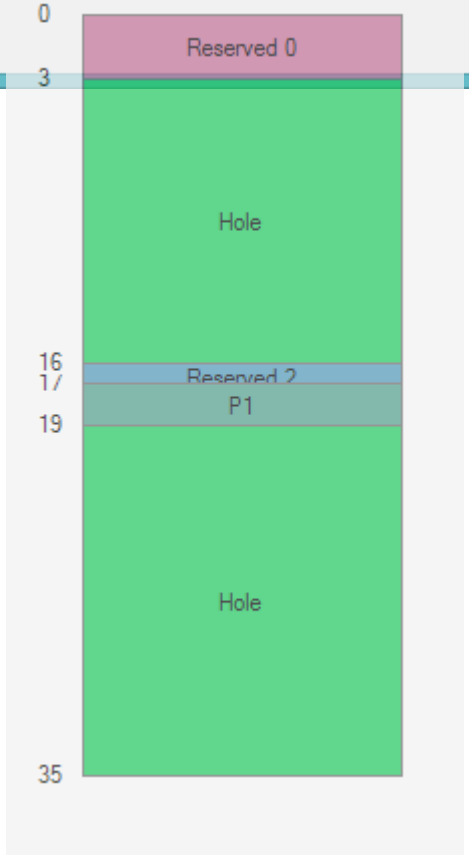
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #3 Name:
P1
Process #3 Size:
2
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
Hole
16
17
Reserved 2
Hole
35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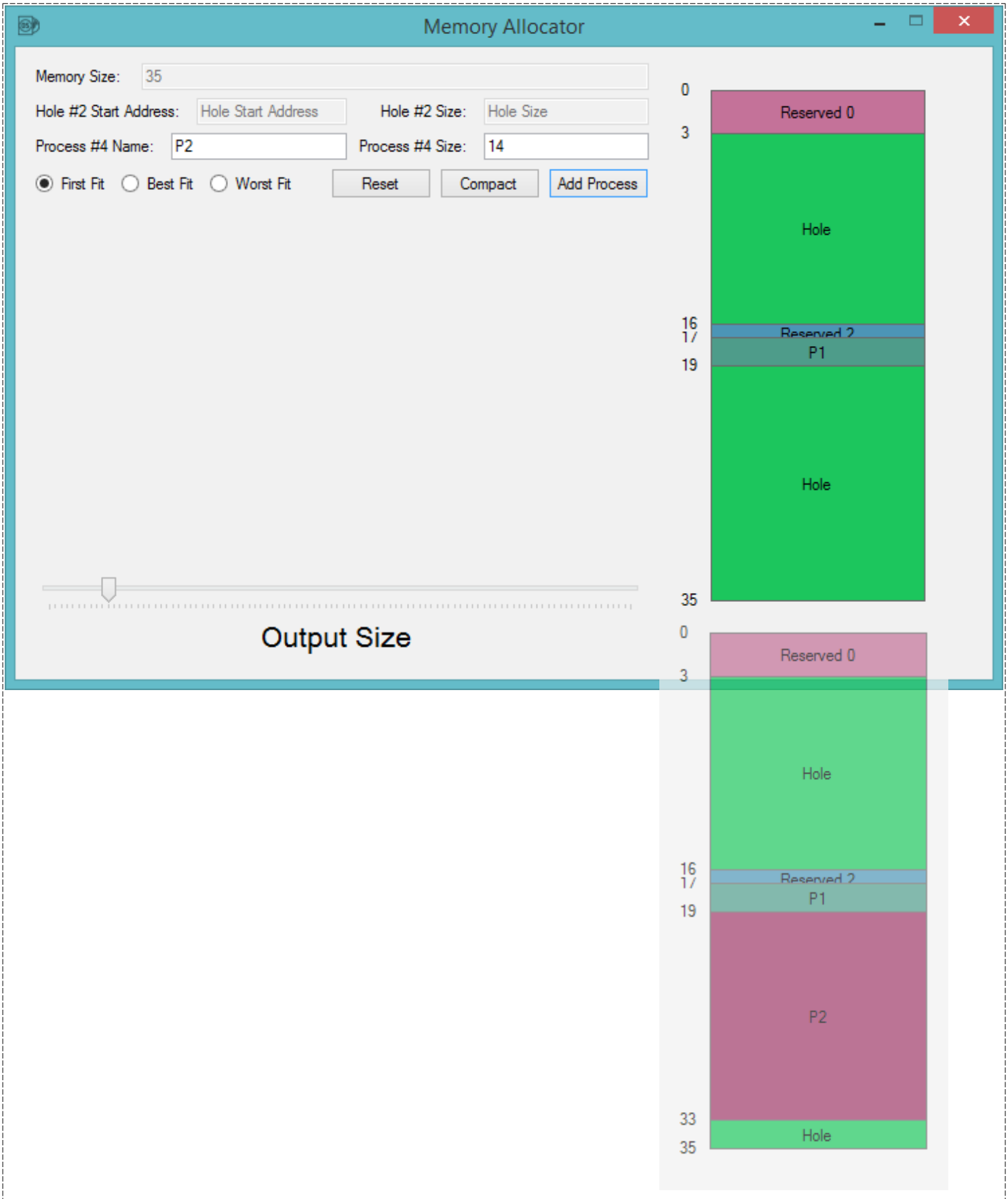
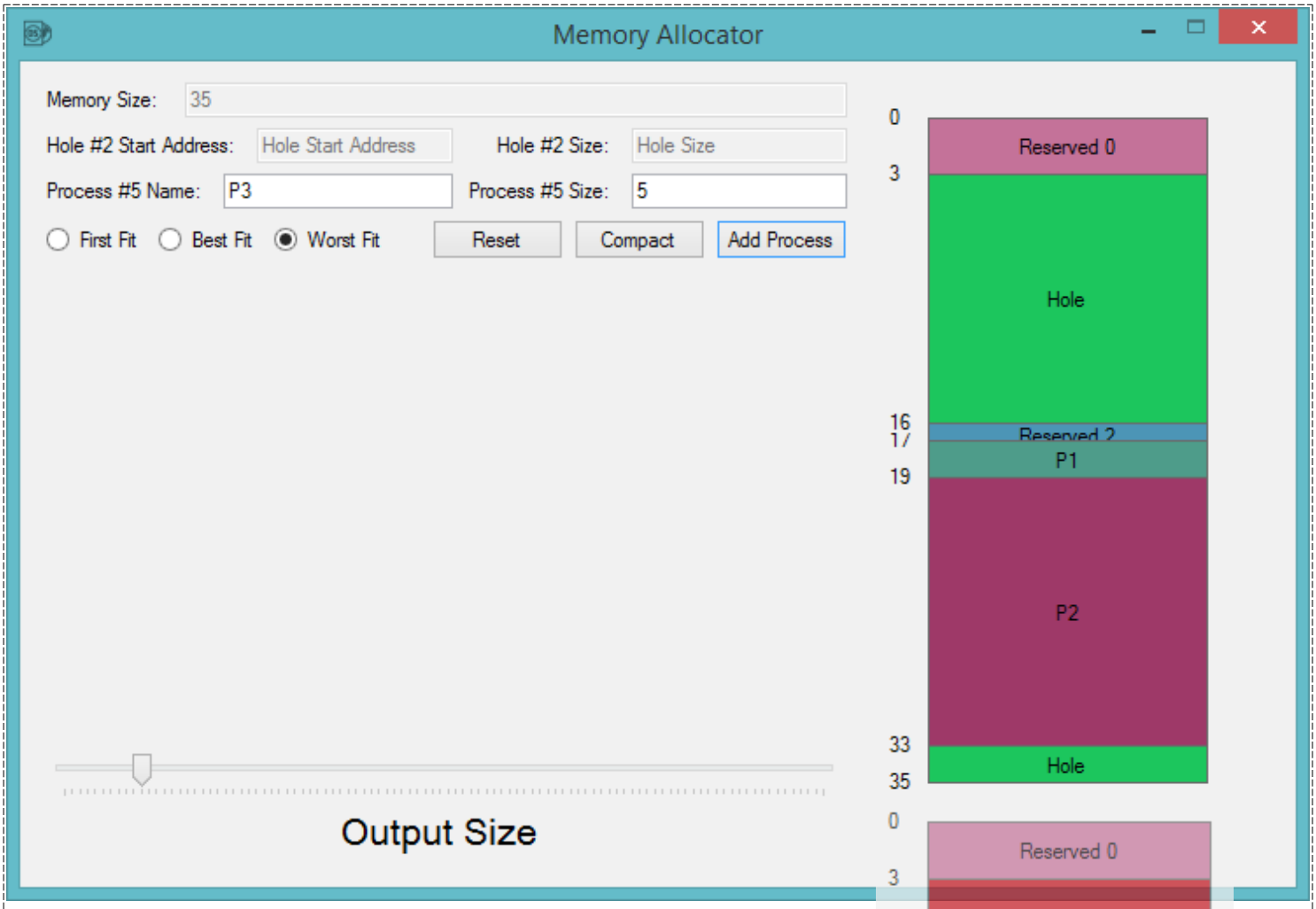
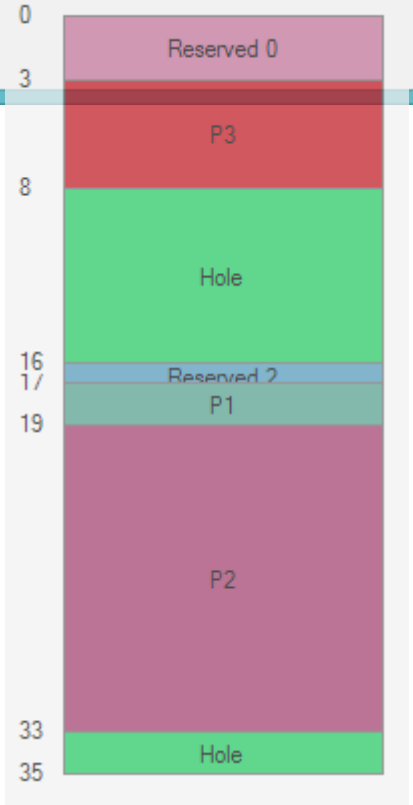
Reserved 0
3
Hole
16
17
Reserved 2
P1
19
Hole
35


Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #4 Name:
P2
Process #4 Size:
14
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
Hole
16
17
Reserved 2
P1
19
Hole
35
0
Reserved 0
3
Hole
16
17
Reserved 2
P1
19
P2
33
Hole
35


Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #5 Name:
P3
Process #5 Size:
5
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
Hole
16
17
Reserved 2
P1
19
P2
33
Hole
35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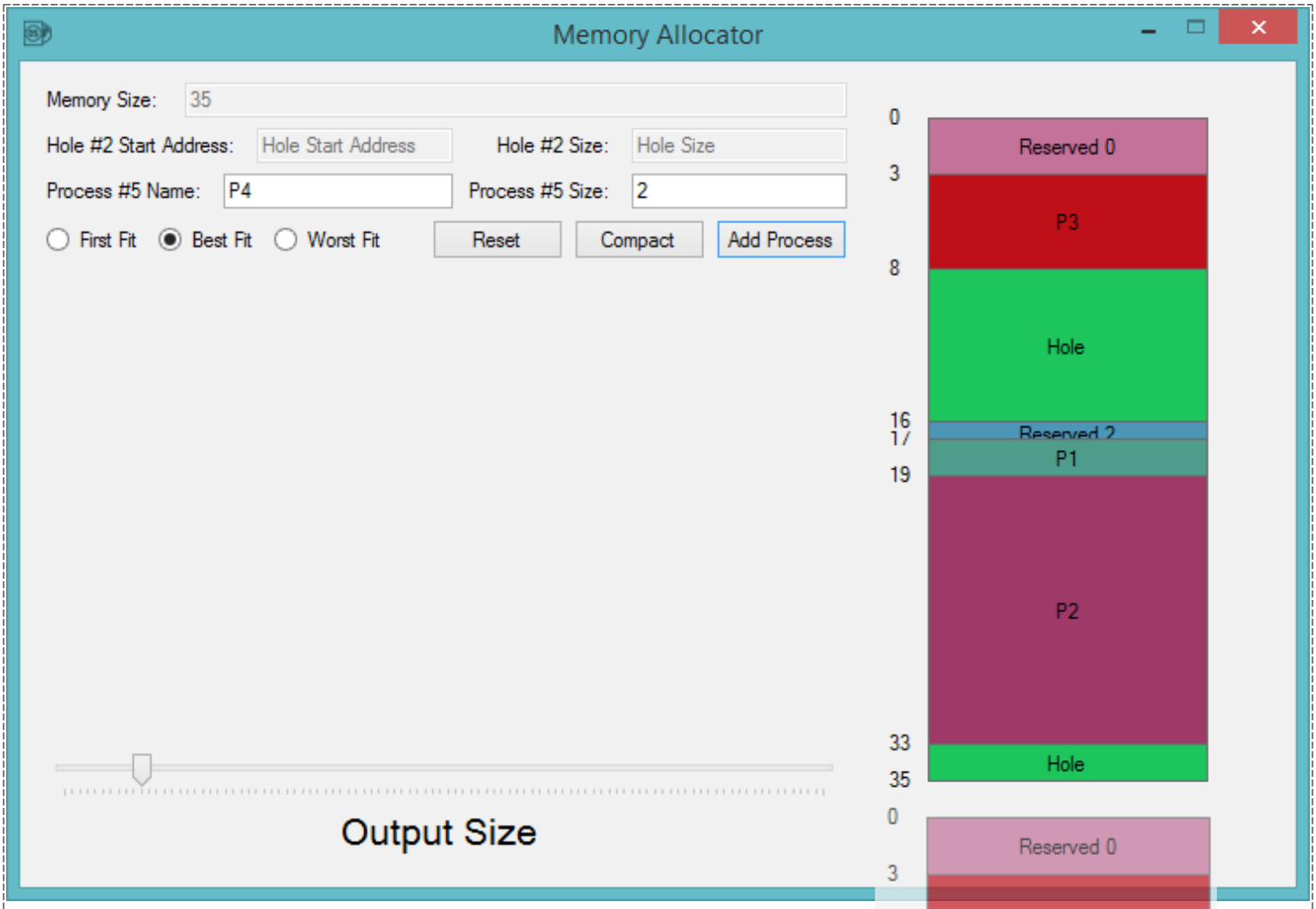
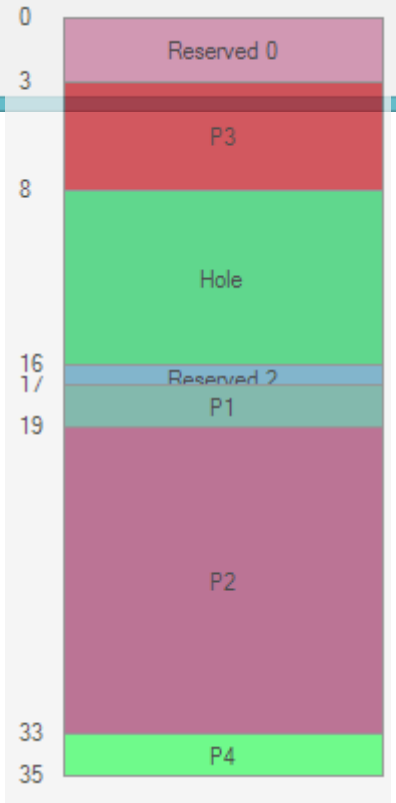
Reserved 0
3
P3
8
Hole
16
17
Reserved 2
P1
19
P2
33
Hole
35


Memory Allocator
Memory Size:
35
Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #5 Name:
P4
Process #5 Size:
2
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
P3
8
Hole
16
17
Reserved 2
P1
19
P2
33
Hole
35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P3
8
Hole
16
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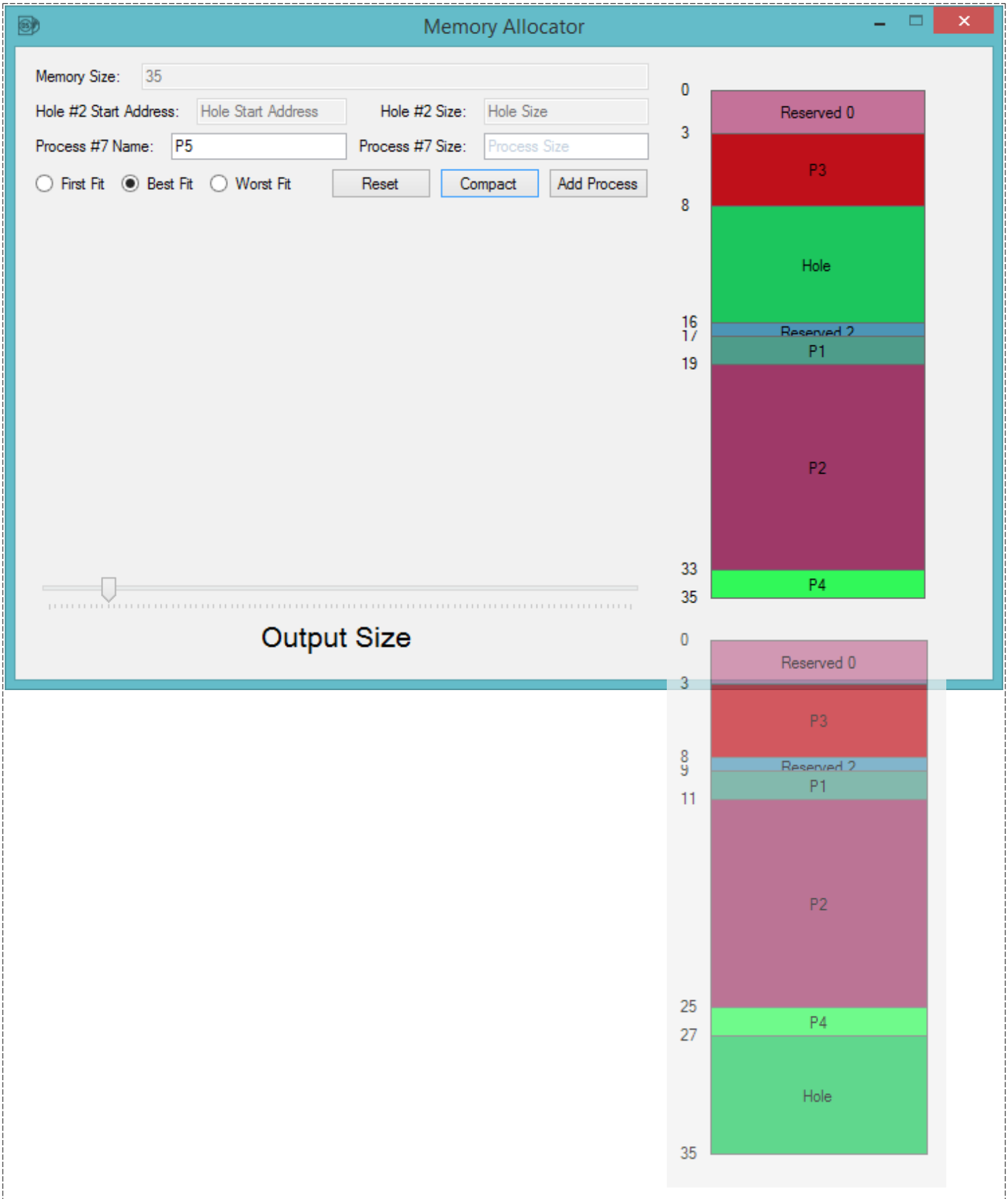
Reserved 2
P1
19
P2
33
P4
35


Memory Allocator
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Hole Start Address
Hole #2 Size:
Hole Size
Process #7 Name:
P5
Process #7 Size:
Process Size
First Fit
Best Fit
Worst Fit
Reset
Compact
Add Process
Output Size
0
Reserved 0
3
P3
8
Hole
16
17
P1
19
P2
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P4
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P3
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9
P1
11
P2
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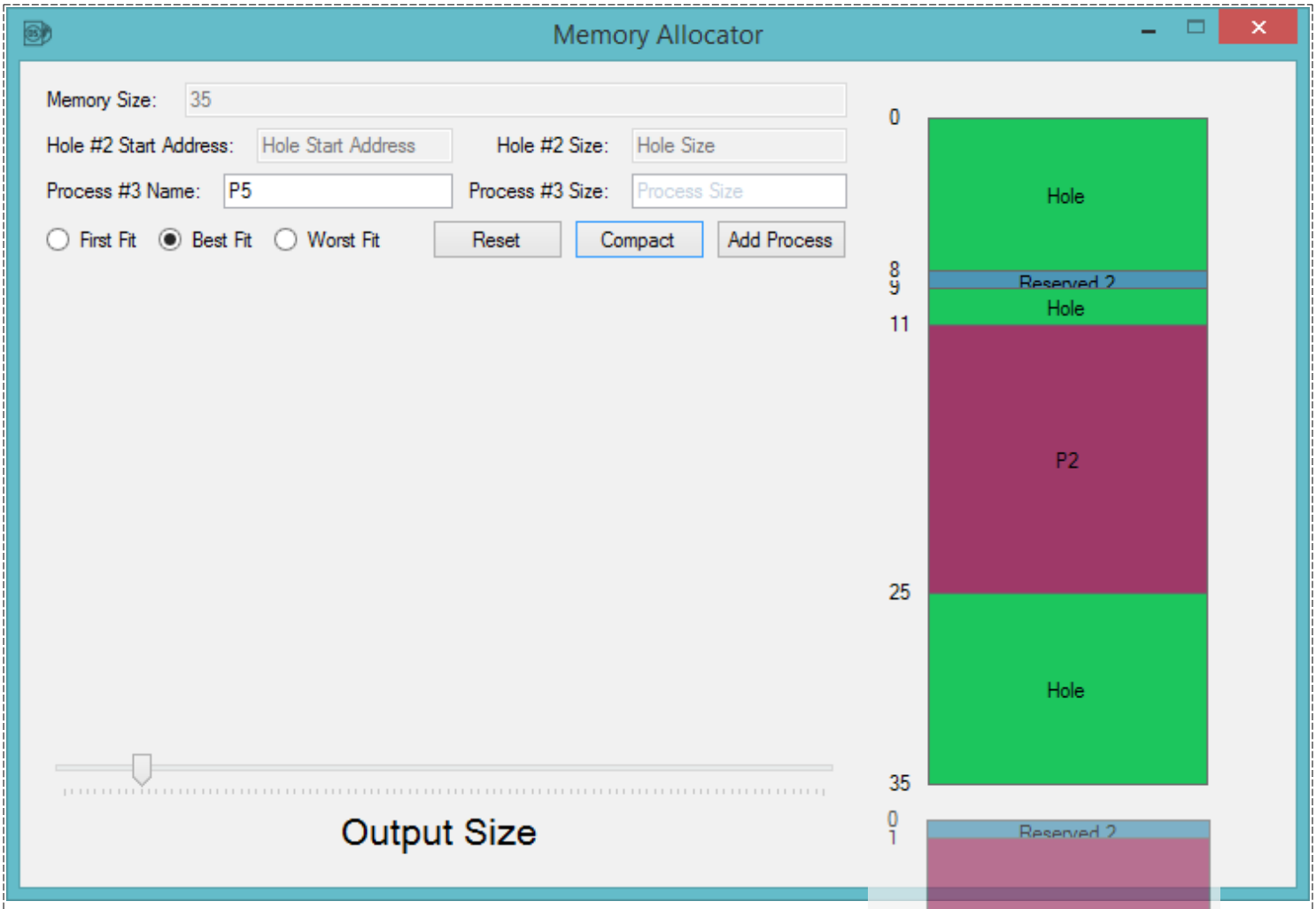
P4
27
Hole
35


Memory Allocator
Memory Size:
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Hole #2 Start Address:
Hole Start Address
Hole #2 Size:
Hole Size
Process #3 Name:
P5
Process #3 Size:
Process Size
First Fit
Best Fit
Worst Fit
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P2
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Hole
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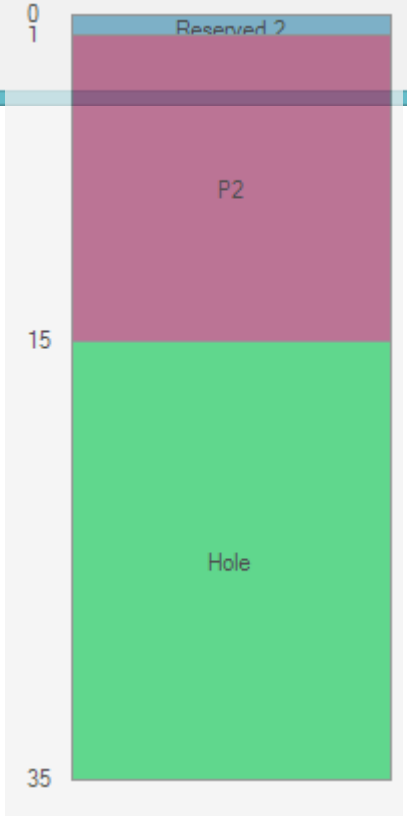
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1
Reserved 2
P2
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Hole
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