

Operating Systems

Project 19

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The resulting state of the memory after each algorithm is as follows: x represents filled memory with unknown data. The m's are the allocations, and the number is the empty space.

1 First Fit

| x | m₂ | m₃ | 2 | x | 5 | x | m₁ | 1 | x | 9 | x | m₄ | 16 | x | m₅ | 7 | x |

2 Next Fit

| x | 10 | x | 5 | x | m₁ | 1 | x | m₂ | m₃ | 1 | x | m₄ | 16 | x | m₅ | 7 | x |

3 Best Fit

| x | 10 | 5 | m₁ | 1 | x | m₂ | m₃ | x | m₅ | 15 | x | m₄ | 8 | x |

4 Worst Fit

| x | 10 | x | 5 | x | 14 | x | 9 | x | m₁ | m₃ | m₅ | x | m₂ | m₄ | 2 | x |