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Intro to OS

Lab 4

1. N/A
2. C program attached
3. Memory Allocation Algorithms

**First-fit Allocation:**

|  |  |
| --- | --- |
| Actions | Memory Diagram |
| Start | A screenshot of a computer  Description automatically generated |
| E starts and requests 300 units | A screenshot of a computer  Description automatically generated |
| A requests 300 more units | A purple rectangle with black text  Description automatically generated |
| D exits | A purple rectangle with black text  Description automatically generated |
| F starts and requests 700 units |  |
| C exits | A purple rectangle with black text  Description automatically generated |
| G starts and requests 900 units | A green and purple squares  Description automatically generated |

**Best fit Allocation:**

|  |  |
| --- | --- |
| Actions | Memory Diagram |
| Start | A screenshot of a computer  Description automatically generated |
| E starts and requests 300 units | A green and purple rectangles with black text  Description automatically generated |
| A requests 300 more units | A green and purple rectangles with black text  Description automatically generated |
| D exits | A green and purple rectangles with black text  Description automatically generated |
| F starts and requests 700 units | A green and purple rectangles with black text  Description automatically generated |
| C exits | A screenshot of a video game  Description automatically generated |
| G starts and requests 900 units | A green and purple squares with black text  Description automatically generated |

**Worst-fit Allocation:**

|  |  |
| --- | --- |
| Actions | Memory Diagram |
| Start | A black background with purple squares  Description automatically generated |
| E starts and requests 300 units | A black background with purple squares  Description automatically generated |
| A requests 300 more units | A black background with purple squares  Description automatically generated |
| D exits | A black background with purple squares  Description automatically generated |
| F starts and requests 700 units | A screenshot of a computer  Description automatically generated |
| C exits | A purple square on a black background  Description automatically generated |
| G starts and requests 900 units | A green and purple squares with black text  Description automatically generated |

1. Fork: <https://github.com/nickrwu/github_tutorial>

Pull Request: <https://github.com/kbroman/github_tutorial/pull/53>