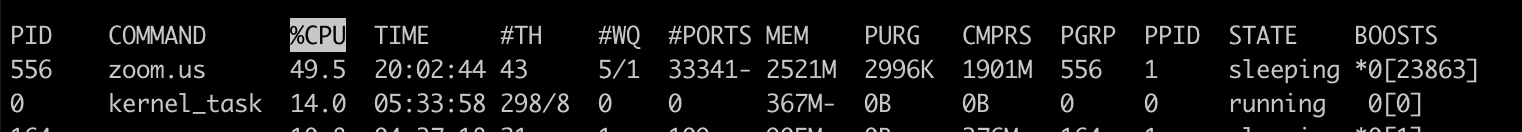
13th July Assignment

1. Time Complexity = O(1) + O(n/2) + O(n) = O(3n/2)= O(n)
2. O (log N)
3. Performance validation
4. Performance Engineering vs Performance Testing

|  |  |
| --- | --- |
| Performance Testing | Performance Engineering |
| * It measures the performance of a system, often under different conditions and usually against a set of requirements. | * It is the process of analysing and understanding why the system gives the performance that it does, and is usually applied when that performance is inadequate. |
| * It also tests the limits of performance of the system so that failure can be predicted and avoided. | * It usually includes identifying the cause, at least to the component level, of inadequate performance and can including the crafting of changes to improve that performance. |
| * When a technician checks your phone to find the fault. This is called performance testing. | * Hardware Upgrade, Server settings change, code optimization. |

6. 

7. A screenshot of text

Description automatically generated

A screenshot of text

Description automatically generated

A screenshot of a cell phone

Description automatically generated