



What is the purpose of the Fetch-Decode-Execute cycle	What is a hub	What does the Merge Sort Algorithm do
What is the role of device drivers in an operating system	What is the difference in memory allocation for arrays and lists	What are the methods used to write algorithms



<p><i>What is the purpose of the Fetch-Decode-Execute cycle</i></p> <p><b>Answer: To process data and instructions.</b></p>	<p><i>What is a hub</i></p> <p><b>A device that connects nodes together and makes all connected nodes act as a single segment.</b></p>	<p><i>What does the Merge Sort Algorithm do</i></p> <p><b>It splits the dataset up into its individual items and continually pairs items from the dataset in order until the entire dataset has been ordered.</b></p>
<p><i>What is the role of device drivers in an operating system</i></p> <p><b>Device drivers are files that enable the operating system to communicate with computer components.</b></p>	<p><i>What is the difference in memory allocation for arrays and lists</i></p> <p><b>Arrays use a static area of memory and require a fixed amount of memory to be allocated before data is added to it, while lists use memory dynamically and can grow or shrink as needed.</b></p>	<p><i>What are the methods used to write algorithms</i></p> <p><b>Flowcharts and pseudocode.</b></p>