



<p>What is the difference between AND and OR gates?</p>	<p>What are the two main types of loops in programming?</p>	<p>What is the hexadecimal representation of the 8-bit binary number 01010101?</p>
<p>What are the three main Boolean operators ?</p>	<p>What is the main disadvantage of using optical storage ?</p>	<p>What is proprietary software?</p>



<p>What is the benefit of using a 2 dimensional array over a 1 dimensional array?</p>	<p>What is a URL?</p>	<p>What are some examples of access rights that can be used in authentication?</p>
<p>What is the advantage of using Extended ASCII over ASCII?</p>	<p>Which law makes the creation &/or spreading of malware illegal?</p>	<p>What are some examples of runtime errors?</p>



<p>What is the difference between AND and OR gates?</p> <p>The difference between AND and OR gates is that the AND gate outputs True only if both inputs are True, whereas the OR gate outputs True if either input or both inputs are True.</p>	<p>What are the two main types of loops in programming?</p> <p>A count-controlled (for loop) and a condition-controlled (while) loop.</p>	<p>What is the hexadecimal representation of the 8-bit binary number 01010101?</p> <p>Split the number into 2 nibbles, then into denary, then into hex The hexadecimal representation of the 8-bit binary number 01010101 is 55.</p> <p>0101 = 5 0101 = 5</p> <p>Hex numbers are the same 0-9, then 10=A, 11=B, 12=C, 13=D, 14=E, 15=F</p>
<p>What are the three main Boolean operators?</p> <p>The three main Boolean operators are AND, OR, and NOT.</p>	<p>What is the main disadvantage of using optical storage?</p> <p>Answer: The main disadvantage of using optical storage is its relatively low storage capacity compared to other storage types.</p> <p>It is also easily scratched & slow to access</p>	<p>What is proprietary software?</p> <p>Proprietary software is software controlled by a single owner who restricts users from modifying or freely sharing it. It is software that users pay a fee to buy a licence to use the software.</p> <p>The alternative is OPEN SOURCE SOFTWARE which allows people to view & modify the source code.</p>



<p><i>What is the benefit of using a 2 dimensional array over a 1 dimensional array?</i></p> <p>A 2 dimensional array is beneficial over a 1 dimensional array because it allows us to store data in a table-like structure with rows and columns, which can be more useful for certain applications.</p>	<p><i>What is a URL?</i></p> <p>URL stands for Uniform Resource Locator, which is simply a web address used to find a website.</p>	<p><i>What are some examples of access rights that can be used in authentication?</i></p> <p>Limiting access to various parts of the system, requiring passwords, and limiting login attempts.</p>
<p><i>What is the advantage of using Extended ASCII over ASCII?</i></p> <p>Extended ASCII uses 8 bits so can represent more characters than 7-bit standard ASCII.</p>	<p>Which law makes the creation &/or spreading of malware illegal?</p> <p>The Computer Misuse Act. This law also makes it illegal to access a device without authorisation. This covers hacking & employee misuse.</p>	<p>What are some examples of runtime errors?</p> <p>Arithmetic errors like dividing by zero, file errors like file not found. Any error that causes a crash that is NOT a syntax error.</p>