

<b>Semester: July 2025 – Nov 2025</b>											
<b>Maximum Marks: 10</b>		<b>Debug Test</b>									
<b>Programme: B.Tech</b>		<b>Class: FY</b>	<b>Duration : 10 min</b>								
<b>Name of the Constituent College: K. J. Somaiya College of Engineering</b>											
<b>Course Code:</b>		<b>Name of the Course: Structure Programming</b>									
<b>Roll No:</b>		<b>Name:</b>									
<b>Division and Batch:</b>		<b>Sign:</b>									
<p>Instruction:-          There will be logical, syntax error, or missing statements (more than one line) in the given program. A student needs to identify and correct it. If needed type the corrected code accordingly in given format.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 15%;">Line no</th> <th style="width: 35%;">Error</th> <th style="width: 35%;">Explanation</th> <th style="width: 15%;">corrected code</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				Line no	Error	Explanation	corrected code				
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Question	WAP to check whether a number is an Armstrong number or not. (An Armstrong number is a number that equals the sum of the cubes of its digits. Example: $153 = 1^3 + 5^3 + 3^3 \rightarrow$ Armstrong number.)
<pre> 1. #include &lt;iostream&gt; 2. #include &lt;cmath&gt; 3. using namespace std; 4. int main() 5. { 6.     int num, originalNum, remainder, result; // Error 7.     cout &lt;&lt; "Enter a number: "; 8.     cin &lt;&lt; num; // Error 9.     originalNum = num; 10. while (num &gt; 0); // Error 11. { 12.     remainder = num % 10; 13.     result = result + pow(remainder, 3); 14.     num = num / 10 // Error 15. } 16. if (originalNum = result) // Error 17.     cout &lt;&lt; "Armstrong number"; 18. else 19.     cout &lt;&lt; "Not Armstrong number" // Error 20. }</pre>	

Line no	Error	Explanation	corrected code	marks
6	Logical error	Variable result not initialized	result = 0;	2
8	Syntax error	Wrong input operator used	cin >> num;	2
10	Syntax error	Semicolon after while ends loop prematurely	while (num > 0) (remove semicolon)	2
14	Syntax error	Missing semicolon after statement	num = num / 10	1
16	Logical error	Assignment operator used instead of	if (originalNum == result)	2

		comparison		
19	Syntax error	Missing semicolon at end of statement	cout << "Not Armstrong number";	1