

Semester: July 2025 – Nov 2025										
<b>Maximum Marks: 10</b>	Debug Test	<b>Duration : 15 min</b>								
<b>Programme: B.Tech</b>	<b>Class: FY</b>	<b>Semester: I (SVU 2023)</b>								
<b>Name of the Constituent College:</b> K. J. Somaiya College of Engineering										
<b>Course Code:</b>	<b>Name of the Course:</b> Structure Programming									
<b>Roll No:</b>	<b>Name:</b>									
<b>Division and Batch:</b>	<b>Sign:</b>									
<b>Instruction:-</b> 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.										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">Line no</th> <th style="text-align: center; padding: 2px;">Error</th> <th style="text-align: center; padding: 2px;">Explanation</th> <th style="text-align: center; padding: 2px;">corrected code</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;"> </td> </tr> </tbody> </table>			Line no	Error	Explanation	corrected code				
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Question	<b>WAP to check whether a number is an Armstrong number or not.</b> (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.)		
1. #include <iostream> 2. #include <cmath> 3. using namespace std; 4. int main() 5. { <b>6.</b> int num, originalNum, remainder, result; 7.   cout << "Enter a number: "; <b>8.</b> cin << num; <span style="color: red;">// Error</span> 9.   originalNum = num; 10.  while (num > 0); <span style="color: red;">// Error</span> 11. { 12.   remainder = num / 10; <span style="color: red;">// Error</span> 13.   result = result + pow(remainder, 3); 14.   num = num /%10; <span style="color: red;">// Error</span> 15. } 16. if (originalNum == result) <span style="color: red;">// Error</span> 17.   cout << "Armstrong number"; 18. else 19.   cout << "Not Armstrong number" <span style="color: red;">// Error</span> 20. }			

Line no	Error	Explanation	corrected code	marks
12	Logical error	remainder = num / 10	remainder = num % 10	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	Logical error	num = num /%10	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