

Semester: July 2025 – Nov 2025											
Maximum Marks: 10		Debug Test									
Programme: B.Tech		Class: FY	Duration : 15 min								
Name of the Constituent College: K. J. Somaiya College of Engineering											
Course Code:		Name of the Course: Structure Programming									
Roll No:		Name:									
Division and Batch:		Sign:									
<p>Instruction:-</p> <p>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 <iostream> 2. #include <cmath> 3. using namespace std; 4. int main() 5. { 6. int num, originalNum, remainder, result; 7. cout << "Enter a number: "; 8. cin << num; // Error 9. originalNum = num; 10. while (num > 0); // Error 11. { 12. remainder = num / 10; // Error 13. result = result + pow(remainder, 3); 14. num = num /%10; // Error 15. } 16. if (originalNum = result) // Error 17. cout << "Armstrong number"; 18. else 19. cout << "Not Armstrong number" // Error 20. }</pre>	

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