

Semester: July 2025 – Nov 2025										
Maximum Marks: 10	Debug Test	Duration : 15 min								
Programme: B.Tech	Class: FY	Semester: I (SVU 2023)								
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:									
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.										
<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	Read n words and an integer minLen. Print how many words have length strictly greater than minLen. If none, print "None".
	<pre> 1. #include <iostream> 2. #include <string> 3. using namespace std; 4. int countLonger(string arr[], int n, int minLen) { 5. int c = 0; 6. for (int i = 0; i <= n; i++) { // BUG #1: off-by-one 7. if (arr[i].length() >= minLen) // BUG #2: >= instead of > 8. c++; 9. } 10. return c; 11. } 12. int main() { 13. int n; 14. cout << "Enter number of words: "; 15. cin >> n; 16. string arr[5]; 17. cout << "Enter the words: "; </pre>

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18. for (int i = 0; i < n; i++)
19.   cin >> arr[i];
20. int minLen;
21. cout << "Enter minimum length: ";
22. // BUG #3: missing cin >> minLen;
23. int result = countLonger(arr, n, minLen);
24. if (result = 0) // BUG #4: = instead of ==
25.   cout << "None";
26. else
27.   cout << "Words longer than " << c << ":" << minLen; // BUG #5: wrong variable name
28. return 0;
29. }
  
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Line no	Error	Explanation	corrected code	marks
6	Logical Error	(int i = 0; i <= n; i++)	(int i = 0; i < n; i++)	2
7	Logical Error	condition is incorrect	if (arr[i].length() > minLen)	2
22	Syntax Error	missing cin statement	cin >> minLen;	2
24	Logical Error	Comparison operator missing. The single '=' is an assignment operator, not a comparison.	if (result ==0)	2
27	Syntax Error	wrong variable name	Words longer than " << c << ":" << minLen;	2