



<b>Semester: July 2025 – Nov 2025</b>											
<b>Maximum Marks: 10</b>		<b>Debug Test</b>									
<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: 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"><thead><tr><th>Line no</th><th>Error</th><th>Explanation</th><th>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	Read n words and an integer minLen. Print how many words have length strictly greater than minLen. If none, print "None".
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: ";	

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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