**CS469 – PE09 Questions**

**Q. As part of the assignment, describe how the algorithms can be implemented using recursive and how it would perform.**

The longest common subsequence problem can also be solved using recursion by checking one character at a time from both strings. If the characters match, the function adds one and keeps checking the rest of the strings. If they don’t match, the function tries both options, either skipping a character from the first string or the second, and then takes the larger result. Even though this works, its very slow because the same subproblems get solved over and over, leading to tons time wasted. That’s why the recursive version is simple to understand but not really practical for bigger inputs.  
  
**Snippet for PE09**A screenshot of a computer program

AI-generated content may be incorrect.