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| Program  8.3 | Write a C program to check if the user inputted string is palindrome or not using recursion.   |  |  |  | | --- | --- | --- | | Sr No | Input | Palindrome or not | | 1 | alpha | Not | | 2 | madam | Palindrome | | 3 | saippuakivikauppias | Palindrome | | 4 | hannah | Palindrome | |
| Algorithm: | Step 1: Start.  Step 2: Input the string.  Step 3: Reverse the entered string.  Step 4: If entered string and reversed string are same then print string is palindrome.  Step 5: Else print string is not palindrome.  Step 6: End. |
| Flowchart: |  |
| Code: |  |
| Output: |  |

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| --- | --- |
| Question  Answer? | **1. Explain the concept of recursion. Explain the difference between recursion and iteration?**  **Ans**: Recursion is when a statement in function calls itself repeatedly. The iteration is when a loop repeatedly executes until the controlling condition becomes false. The primary difference between recursion and iteration is that is a recursion is a process, always applied to a function. |