Algorithm

Aim: To check whether a String is palindrome using recursion

1). Start

2). String str = "";
String rev = "";

3). void get() – Function to accept String from the user.

System.out.println("\nEnter the String");
str = br.nextLine();

4). void rverse_string(int n) – Recursive function to reverse the String.

a). if(n < 0)
return;

b). rev = rev + str.charAt(n);
rverse_string(n-1);

5). void check() – Function compare the input and the reversed input.

a). System.out.println("\nOriginal String: "+str);
System.out.println("Reversed String: "+rev);

b). if(str.compareTo(rev) == 0)
System.out.println("\nString is Palindrome");

c). else
System.out.println("\nString is not Palindrome");

6). main() – main function for object creation and function execution

a). Reverse r1=new Reverse();

b). r1.get();
r1.rverse_string(r1.str.length()-1);
r1.check();

7). Stop