Sagar. S. Yadvani

`G` sec

4AL19CS079

## Algorithm

Step1: Start

Step2: Input str

Step3: Repeat for $(i=0; str[i]; = '0'; i++)$

  len ++

Step4: Repeat for $(i= len-1; i>=0; i--)$

  $a[len-i-1] = str[i]$

Step5: Repeat for $(i=0; i<len; i++)$

  if $(a[i] != str[i])$

  flag =0

Step6: if $(flag ==1)$

  Display %.s of a palindrome

  output str

  Else.

  Display. %.s. is not a palindrome

  output str

Step7: Stop.

# Flowchart

```
          ( Start )
              |
              v
        [ Input Str ]
              |
              v
   >  for (i=0; Str(i);i='0'; i++)  <
              |
              v
          [ len ++ ]
              |
              v
     >  for (i=0; i<len; i++)  <
              |
              v
     [ a(len-i-1) = Str(i) ]
              |
              v
     >  for (i=0; i<len; i++)  <
              |
              v
         <if (a(i) != Str(i))          True
          (flag=i)>  ----------->  [ flag=i ]
              |
              v
         <if (flag == 1)>
    False /            \ True
         /              \
[is% S not Pali]      [% S is a palindrome]
              |
              v
          ( Stop )
```