C program to check whether given
string is palindrome or not without
using built function

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Algorithm

① start

② Input string, length =0, flag=0

③ for (i=0; string [i] != '\0'; i++)

    length ++

④ output length of a string

⑤ for (i= length -1; i>= 0; i--)

    reverse - string [length -i-1] = string [i];

⑥ for (flag=1 & i=0; i<length; i++)

    if (reverse-string [i] != string [i])

       flag=0;

⑦ if (flag ==1)

      output palindrome

   else

    output not a palindrome

⑧ stop

Flowchart

```
                    ( Start )
                        |
                        v
   ( Input string, length =0, flag =0 )
                        |
                        v
   < for (i=0; string [i] = '\0'; i++) >
                        |
                        v
              [ length ++ ]
                        |
                        v
      [ output length of string ]
                        |
                        v
   < for (i= length -1 ; i>=0; i--) >
                        |
                        v
   ( Reverse_string [length-i-1] = string [i] )
                        |
                        v
   < for (flag =1, i=0; i<length ; i++ >
                        |
                        v
            if  / Reverse string
               <  [i] = string [i]  >
                        |
                        v
              [ flag =0 ]
                        |
                        v
        if  ( flag == 1 )  ---F--->  [ output not a
               |                        palindrome ]
               T                            |
               v                            |
       [ output palindrome ]                |
               |_____|
                        |
                        v
                    ( Stop )
```