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#!/bin/sh
#Question:
# Write a shell script to accept a integer from the terminal and check if its a
     palindrome. A number is palindrome if the reverse of the number turns out to
     be the same number. 12321, whose reverse is 12321, which is the original
     number, is a palindrome. Number 12345 is not a palindrom as its reverse is
#
     54321 ≠ original number.
# Always write assumptions made, either as comment or as description
# and keep the rough work, do not erase it out
# accept a integer from the terminal
  echo "Enter an integer: "
  read num
# Content can be reversed using command rev , reverse lines characterwise
    As the datatype is decided during run, loosely typed programming language
#
      use rev to find reverse of number num, considering num as string
       Its shell script, use $ to get value of variable , enclose in backquote ` ` to imply its commands and not just string
  reverse=` echo $num | rev `
  echo "$num is "
  if [ $num = $reverse ] # string comparision using = , instead of == as in C
    then
      echo "a palindrome"
  else
      echo "not a palindrome"
# or using while loop , consider num as number, find reverse,
  then compare with original
                #initialize reverse
  reverse=0
                #save num in another variable
  temp=$num
  while [ $temp -ne 0 ]
     # escape * and use of ` expr ` to evaluate
reverse=` expr $reverse \* 10 + $temp % 10 ` # extract last digit
                                                    # and add to existing reverse
     temp=` expr $temp / 10 ` # remove last digit
    done
  echo "$num is "
  if [ $num = $reverse ] # string comparision using = , instead of == as in C
      echo "a palindrome"
  else
      echo "not a palindrome"
```