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#!/bin/sh
#Question:
# Write a shell program to accept a positive integer n from the terminal and
    print n th Fibonacci number. A number in Fibonacci series is expressed as
    sum of its previous two numbers.
        fibonacci(n) = fibonacci(n-1) + fibonacci(n-2)
#
            given fibonacci(1) = 0 and
                  fibonacci(2) = 1
# 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 a positive integer n:
  read n
       Its shell script, use \$ to get value of variable , And enclose in backquote ` to imply its command *
                                    ` to imply its command and not just a string
  fibonacci1=0
                        # fibonacci(1) = 0
  fibonacci2=1
                        # fibonacci(2) = 1
  nextFibonacci=""
  echo "The $n fibonacci number is: "
  if [ $n -eq 1 ]
                     # fibonacci(1) = 0
    then
      echo "$fibonacci1"
  elif [ $n -eq 2 ]
                      # fibonacci(2) = 1
    then
      echo "$fibonacci2"
          # fibonacci(n) = fibonacci(n-1) + fibonacci(n-2), and since 1st two
      i=3 # fibonacci numbers are 0 and 1, so start from next, i.e.
      while [\$i -le \$n] # 3rd number till the n th number, from i = 3 till n
          nextFibonacci=` expr $fibonacci1 + $fibonacci2 `
          fibonacci1=$fibonacci2
          fibonacci2=$nextFibonacci
          i=`expr $i + 1
        done
      echo "$nextFibonacci"
  fi
```