#!/bin/bash

# Prompt user to enter the number of terms

echo "Enter the number of terms in the Fibonacci sequence:"

read n

# Check if the input is valid

if ((n <= 0)); then

echo "Error: Please enter a positive integer greater than 0."

exit 1

fi

# Fibonacci sequence generation

# Initialize the first two terms

fibonacci=(0 1)

# Generate the sequence

for ((i = 2; i < n; i++)); do

next\_term=$((fibonacci[i-1] + fibonacci[i-2]))

fibonacci+=($next\_term)

done

# Print the Fibonacci sequence

echo "Fibonacci sequence up to the $n-th term:"

for ((i = 0; i < n; i++)); do

echo -n "${fibonacci[i]} "

done

echo