#!/bin/bash

# Prompt user to enter the number of elements

echo "Enter the number of elements in the array:"

read n

# Initialize an empty array

declare -a array

# Read elements from the user

echo "Enter the elements of the array:"

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

read array[i]

done

# Bubble sort

for ((i = 0; i < n-1; i++)); do

for ((j = 0; j < n-i-1; j++)); do

if (( ${array[j]} > ${array[j+1]} )); then

# Swap elements if they are in the wrong order

temp=${array[j]}

array[j]=${array[j+1]}

array[j+1]=$temp

fi

done

done

# Print the sorted array

echo "Sorted array:"

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

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

done

echo