#!/bin/bash

# Prompt user to enter the size of the array

echo "Enter the size of the array:"

read size

# Initialize an empty array

arr=()

# Prompt user to enter the elements of the array

echo "Enter the elements of the array:"

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

echo "Enter element $((i + 1)): "

read element

arr+=("$element")

done

# Prompt user to enter the number to search for

echo "Enter the number to search for:"

read search\_number

# Flag to track if the number is found

found=false

# Iterate through the array

for ((i = 0; i < ${#arr[@]}; i++)); do

if [[ ${arr[$i]} -eq $search\_number ]]; then

found=true

echo "The number $search\_number is found at position $i"

fi

done

# If the number is not found

if ! $found; then

echo "The number $search\_number is not found in the array."

fi