#!/bin/bash

# Prompt user for array size

echo "Enter the size of the array:"

read size

# Initialize an empty array

arr=()

# Prompt user for array elements and store them in 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 for target

echo "Enter the target number to search:"

read target

# Flag to track if target is found

found=false

# Loop through the array to search for the target

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

if [[ ${arr[$i]} -eq $target ]]; then

echo "Target $target found at index $i"

found=true

break

fi

done

# If target is not found

if ! $found; then

echo "Target $target not found in the array"

fi