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**PROBLEM STATEMENT:**

Write a BASH shell script to find largest and smallest elements of a given array.

**OBJECTIVE:**

To find largest and smallest elements of a given array.

**SHELL SCRIPT:**

echo "Shell script to find largest and smallest elements of a given array."

echo "Enter size of array: "

read n

echo "Enter the elements:"

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

read arr[$i]

done

smallest=${arr[0]}

largest=${arr[0]}

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

if [[ ${arr[$i]} -lt $smallest ]]; then

smallest=${arr[$i]}

fi

if [[ ${arr[$i]} -gt $largest ]]; then

largest=${arr[$i]}

fi

done

echo "Smallest number in the array is: $smallest"

echo "Largest number in the array is: $largest"

**Output:**

