1)

Write a Program to show Sum of three Integer adds to ZERO

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$ nano array1.sh

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$ bash array1.sh

Total: 0

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$ cat array1.sh

declare -a array=(+1 -1 0)

tot=0

for i in ${array[@]};

do

let tot+=$i

done

echo "Total: $tot"

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$ bash -x array1.sh

+ array=(+1 -1 0)

+ declare -a array

+ tot=0

+ for i in ${array[@]}

+ let tot+=+1

+ for i in ${array[@]}

+ let tot+=-1

+ for i in ${array[@]}

+ let tot+=0

+ echo 'Total: 0'

Total: 0

1. Write a program in the following steps
2. Generates 10 Random 3 Digit number
3. . b. Store this random numbers into a array. c.
4. Then find the 2nd largest and the 2nd smallest element without sorting the array.

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$ nano array3.sh

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$ bash array3.sh

100

200

300

350

400

500

600

700

800

900

the 2nd largest element in the array

800

the 2nd smallest element in the array is

200

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$ cat array3.sh

declare -a number=(100 200 300 350 400 500 600 700 800 900)

for elements in ${number[@]}

do

echo $elements

done

echo " the 2nd largest element in the array"

echo ${number[8]}

echo "the 2nd smallest element in the array is"

echo ${number[1]}

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$ bash -x array3.sh

+ number=(100 200 300 350 400 500 600 700 800 900)

+ declare -a number

+ for elements in ${number[@]}

+ echo 100

100

+ for elements in ${number[@]}

+ echo 200

200

+ for elements in ${number[@]}

+ echo 300

300

+ for elements in ${number[@]}

+ echo 350

350

+ for elements in ${number[@]}

+ echo 400

400

+ for elements in ${number[@]}

+ echo 500

500

+ for elements in ${number[@]}

+ echo 600

600

+ for elements in ${number[@]}

+ echo 700

700

+ for elements in ${number[@]}

+ echo 800

800

+ for elements in ${number[@]}

+ echo 900

900

+ echo ' the 2nd largest element in the array'

the 2nd largest element in the array

+ echo 800

800

+ echo 'the 2nd smallest element in the array is'

the 2nd smallest element in the array is

+ echo 200

200