//2ndLargest & 2ndSmallest number

#!/bin/bash -x

count=0;

while [[ $count -lt 10 ]]

do

num[$count]=$(( RANDOM%900+100 ))

((count++))

done

echo ${num[@]};

largest=${num[0]};

secondlarge=0;

smallest=${num[0]};

secondsmall=0;

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

do

if [[ ${num[i]} -gt $largest ]]

then

secondlarge=$(( $largest ));

largest=$(( ${num[i]} ));

elif [[ $secondlarge -lt ${num[i]} ]]

then

secondlarge=$(( ${num[i]} ));

fi

done

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

do

if [[ ${num[i]} -lt $smallest ]]

then

secondsmall=$(( $smallest ));#!/bin/bash -x

count=0;

flag=0;

read -p "Enter the range of numbers: " start end;

for(( i=$start;i<=($end);i++ ))

do

if [[ $i%11 -eq 0 && $i -ne 0 ]]

then

flag=1;

else

flag=0;

fi

if [[ $flag -eq 1 ]]

then

arr[count++]=$i;

fi

done

echo ${arr[@]};

smallest=$(( ${num[i]} ));

elif [[ ${num[i]} -ge $smallest && ${num[i]} -lt $secondsmall ]]

then

secondsmall=$(( ${num[i]} ));

fi

done

echo "second largest value is: " $secondlarge;

echo "second smallest value is: " $secondsmall;

//PrimeFactors Program

#!/bin/bash -x

count=0;

read -p "Enter a number to find its prime factors: " n;

for(( i=2;i<$n;i++ ))

do

if [[ $n%$i -eq 0 ]]

then

flag=1;

for(( j=2;j<=$(( $i/2 ));j++ ))

do

if [[ $i%$j -eq 0 ]]

then

flag=0;

fi

done

if [[ $flag -eq 1 ]]

then

arr[count++]=$i;

fi

fi

done

echo ${arr[@]};

//Double number

|  |
| --- |
| #!/bin/bash -x |
|  | count=0; |
|  | flag=0; |
|  | read -p "Enter the range of numbers: " start end; |
|  | for(( i=$start;i<=($end);i++ )) |
|  | do |
|  | if [[ $i%11 -eq 0 && $i -ne 0 ]] |
|  | then |
|  | flag=1; |
|  | else |
|  | flag=0; |
|  | fi |
|  | if [[ $flag -eq 1 ]] |
|  | then |
|  | arr[count++]=$i; |
|  | fi |
|  | done |
|  | echo ${arr[@]}; |

//TripletArray

|  |
| --- |
| #!/bin/bash -x |
|  | triplet="Triplets are"; |
|  | arr=( 1 3 -4 0 2 -1 -5 7 -2 5 ); |
|  | for(( i=0;i<${#arr[@]}-2;i++ )) |
|  | do |
|  | for(( j=$i+1;j<${#arr[@]}-1;j++ )) |
|  | do |
|  | for(( k=$j+1;k<${#arr[@]};k++ )) |
|  | do |
|  | if [[ ${arr[i]}+${arr[j]}+${arr[k]} -eq 0 ]] |
|  | then |
|  | triplet=$triplet'\n'${arr[i]}" "${arr[j]}" "${arr[k]}; |
|  | fi |
|  | done |
|  | done |
|  | done |
|  | echo | sed "i$triplet"; |