#!/bin/bash

function quicksort()

{

left=$1

right=$2

if [[ $1 -lt $2 ]]

then

pivot=${array[$1]}

while(( $left < $right ))

do

while((${array[$left]} <= $pivot && $left < $2))

do

left=$(($left + 1))

done

while((${array[$right]} > $pivot))

do

right=$(($right-1))

done

if [[ $left -lt $right ]]

then

temp=${array[$left]}

array[$left]=${array[$right]}

array[$right]=$temp

fi

done

temp=${array[$right]}

array[$right]=${array[$1]}

array[$1]=$temp

temp=$right

# pivot used in each case are printed for evaluation

quicksort $1 $((right-1)) array

quicksort $((temp+1)) $2 array

fi

}

echo “Enter the number of elements “

read limit

echo “Enter the elements into the list”

for((i=0; i<limit; i++))

do

read array[i]

done

quicksort 0 $((limit-1)) array

echo Array elements after are :

for((i=0;i<limit;i++))

do

echo ${array[$i]}

done