PROGRAMMING CLASSWORK 7

KIERAN YALLA

/*

Header to include in source code:

 * Class: CMSC140 CRN

 * Instructor: Professor Koo

 * Classwork/Homework/<7>

 * Description: Develop a program that implements a function named largerThanN that accepts three arguments: an array of type int, the size of the array of type int and an int number n.

 * Due Date: 11/18/2021

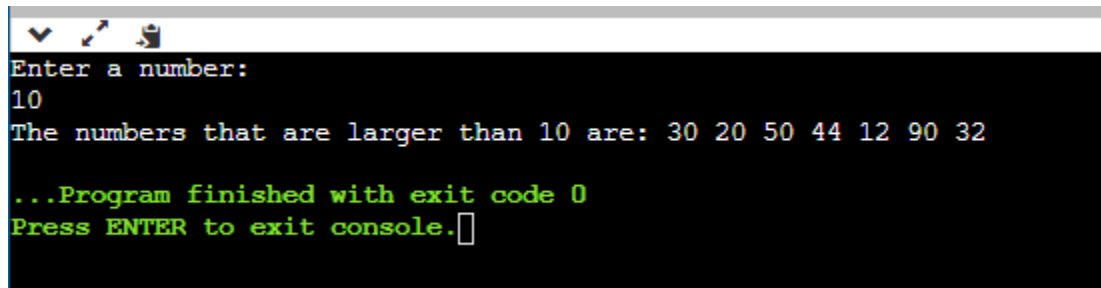 * I pledge that I have completed the programming assignment independently.

   I have not copied the code from a student or any source.

   I have not given my code to any student.

   Print your Name here: Kieran Yalla
*/

Output of program


```
Enter a number:
10
The numbers that are larger than 10 are: 30 20 50 44 12 90 32

...Program finished with exit code 0
Press ENTER to exit console.
```

Pseudo code

Create function largerThanN(int array, int size of array, int n)
Print "the numbers that are larger than n are"
Int i
for i = 0 < size i+1
If array[i] > n
Print array[i] << " "
Int main
Int array numbers[10] = {30,20,50,2,-1,44,3,12,90,32}
Int numbersize = sizeof(numbers in array) / sizeof(numbers in array[0]);
Print "enter a number"
Get input
Call function largerThanN(array numbers, number size, n)
Return 0

Flowchart

```mermaid
flowchart TD
    START((START))
    START --> A[Create function largerThanN. Int array[], size and n]
    A --> B[for(i=0;i<size;i++)]
    B --> C{arr[i]>n}
    C -->|no| B
    C -->|yes| D[cout << arr [i] << " "]
    D --> E[int main]
    E --> F[create array with numbers {30,20,50,2,-1,44,3,12,90,32} and int n]
    F --> G[int ssiizzee = sizeof(numbers) / sizeof(numbers[0])]
    G --> H[ask user to enter a number]
    H --> I{is user input a number?}
    I -->|no| J[error out]
    I -->|yes| K[call largerThanN function and numbers, ssiizzee, n]
    K --> L[display array with numbers larger than user entered number]
    L --> EXIT((EXIT))
    J --> EXIT
```

START

Create function largerThanN. Int array[], size and n

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

arr[i]>n

no

yes

cout << arr [i] << " "

int main

create array with numbers {30,20,50,2,-1,44,3,12,90,32} and int n

int ssiizzee = sizeof(numbers) / sizeof(numbers[0])

ask user to enter a number

is user input a number?

no

error out

yes

call largerThanN function and numbers, ssiizzee, n

display array with numbers larger than user entered number

EXIT