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**Home Assignment**

**Program 2**

**Question:**

Write a program to replace every element in the array with the next greatest element present in the same array.

**Code:**

#include<stdio.h>

#include<stdlib.h>

typedef struct

{

int size,max;

}use;

//we made the structure

int main()

{

use\* e1=(use\*) malloc(sizeof(use\*));

printf("\nEnter the size of the array\n");

scanf("%d",&e1->size);

//we got the size of array

int arr[e1->size];

//array created

printf("\nEnter the elements of the array\n");

for(int i=0;i<e1->size;i++)

{

scanf("%d",&arr[i]);

}

//got the elements of the array

int \*ptr=arr;

//pointer created

e1->max=arr[0];

//we created the variables to store max

for(int i=0;i<e1->size;i++)

{

if(e1->max<=\*(ptr+i))

{

e1->max=\*(ptr+i);

}

}

//fount the max elements of the array

for(int i=0;i<e1->size;i++)

{

\*(ptr+i)=e1->max;

}

//array updated

printf("\nFinal Array\n");

for(int i=0;i<e1->size;i++)

{

printf("%d\t",\*(ptr+i));

}

//array printed

return 0;

}

//end of main method

**Output:**

