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**Class Assignment**

**Program 3**

**Question:**

Given an unsorted array of size n, WAP to find the number of elements between two

elements a and b (both inclusive).

Input: arr = [1, 2, 2, 7, 5, 4], a=2 and b=5

Output: 4

(The numbers are: 2, 2, 5, 4)

If a=6 b=15, then the output will be 0.

**Code:**

#include<stdio.h>

#include<stdlib.h>

typedef struct

{

int a,b,size,count;

}use;

//We made the structure

int main()

{

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

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

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

int arr[e1->size];

//array created

printf("Enter 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;

printf("Enter the two elements\n");

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

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

//got the two boundaries

e1->count=0;

//we will get the count by this

printf("\nThe elements are: \n");

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

{

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

{

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

{

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

e1->count++;

//printed the required elements and count is updated

if(\*(ptr+j)==e1->b)

{

break;

}

}

}

}

//operation done

int flag=0;

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

{

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

{

flag=1;

}

}

if(flag==0)

{

e1->count=0;

}

printf("\nThe Count: %d\n",e1->count);

return 0;

}

**Output:**

