

VIT - Vellore

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BCSE102P_Structured and Object Oriented Programming Lab_VL2024250502365

VIT V_Structured and OOP_Lab 3_COD_Medium_Pointers and Functions

Attempt : 1

Total Mark : 20

Marks Obtained : 20

Section 1 : Coding

1. Problem Statement

Amit is working on a program to print array elements in reverse order using pointers. He needs to write a function that takes an array and its size as input and prints the elements in reverse order.

Help Amit by writing the required function.

Function Signature: void displayarray(int *a, int n)

Answer

```
// You are using GCC
#include<stdio.h>
```

```
void displayarray(int *a, int n){
    for(int i = n-1; i >= 0; i--){
        printf("%d ",*(a+i));
    }
    printf("\n");
}
```

```
int main(){
    int n;
    scanf("%d",&n);

    int arr[n];
    for(int i = 0; i < n; i++){
        scanf("%d",&arr[i]);
    }

    displayarray(arr,n);
}
```

Status : Correct

Marks : 10/10

2. Problem Statement

Sanjay is working on a program to count the number of even numbers in an array using pointers. He needs a function that takes an integer array and its size as arguments and returns the number of even numbers in the array.

Help him in the program.

Function Specifications: int countEven(int*, int);

Answer

```
// You are using GCC
#include<stdio.h>
```

```
int countEven(int *arr, int n){
    int count = 0;
    for(int i = 0; i < n; i++){
        if(*(arr+i)%2 == 0){
```

```
        count++;  
    }  
    }  
    return count;  
}
```

```
int main(){  
    int n;  
    scanf("%d", &n);  
  
    int arr[n];  
    for(int i = 0; i<n; i++){  
        scanf("%d",&arr[i]);  
    }  
    printf("%d\n",countEven(arr,n));  
    return 0;  
}
```

Status : Correct

Marks : 10/10