

## Test 7 // 30 Dec 2024

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Q1)

```
#include<stdio.h>

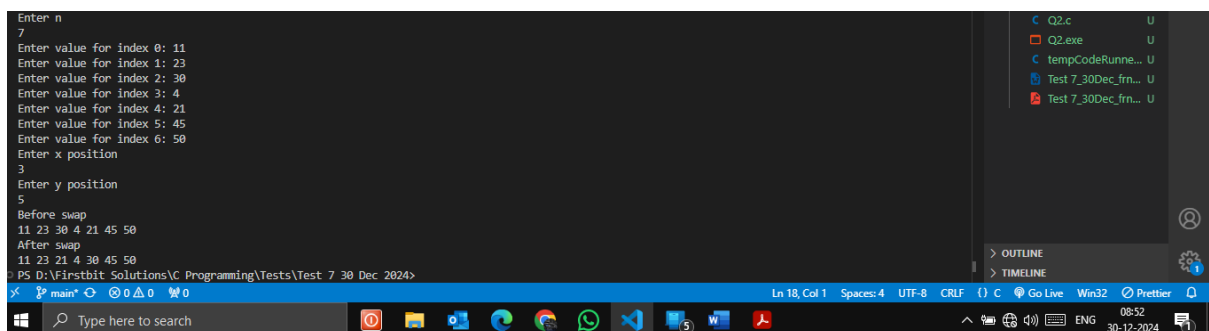
void printArr(int* arr, int n){
    for (int i = 0; i < n; i++)
    {
        printf("%d ", arr[i]);
    }
}

int checkPalindrome(int* arr, int n){
    for (int i = 0; i <= n/2; i++)
        if(arr[i] != arr[n-i-1]) return 0;
    return 1;
}

int main(){
    int n;
    printf("Enter n\n");
    scanf("%d", &n);

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

    printArr(arr, n);
    checkPalindrome(arr, n) ? printf("\nPalindrome"): printf("\nNot Palindrome");
    return 0;
}
```



The screenshot shows a Windows terminal window with a C program running. The program prompts the user to enter 'n' (7) and then values for an array of size 7. The input values are 11, 23, 30, 4, 21, 45, and 50. The program then prints the array and checks if it is a palindrome. The output shows the array and the result 'Not Palindrome'. The Windows taskbar and a file explorer window are also visible.

```
Enter n
7
Enter value for index 0: 11
Enter value for index 1: 23
Enter value for index 2: 30
Enter value for index 3: 4
Enter value for index 4: 21
Enter value for index 5: 45
Enter value for index 6: 50
Enter x position
3
Enter y position
5
Before swap
11 23 30 4 21 45 50
After swap
11 23 21 4 30 45 50
PS D:\Firstbit Solutions\C Programming\Tests\Test 7 30 Dec 2024>
```

Q2)

```
#include<stdio.h>
```

```

void printArr(int* arr, int n){
    for (int i = 0; i < n; i++)
    {
        printf("%d ", arr[i]);
    }
}

int checkPalindrome(int* arr, int n){
    for (int i = 0; i <= n/2; i++)
        if(arr[i] != arr[n-i-1]) return 0;
    return 1;
}

int main(){
    int n;
    printf("Enter n\n");
    scanf("%d", &n);

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

    printArr(arr, n);
    checkPalindrome(arr, n) ? printf("\nPalindrome"): printf("\nNot Palindrome");
    return 0;
}

```

```

Enter n
5
Enter value for index 0: 1
Enter value for index 1: 2
Enter value for index 2: 3
Enter value for index 3: 2
Enter value for index 4: 1
1 2 3 2 1
Palindrome
PS D:\Firstbit Solutions\C Programming\Tests\Test 7 30 Dec 2024>

```

Ln 13, Col 42 Spaces: 4 UTF-8 CRLF C Go Live Win32 Prettier

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