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Class Test: 2

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C - Programming  
(CSA0219)

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1. Find the common elements between two arrays.

<stdio.h> solution

```
#include <stdio.h> solution

int main()
{
    int arr1[] = {1, 2, 3, 4, 5};
    int n1 = sizeof(arr1) / sizeof(arr1[0]);
    int arr2[] = {3, 5, 7, 9, 1};
    int n2 = sizeof(arr2) / sizeof(arr2[0]);
    printf("common elements are:");
    for (int i = 0; i < n1; i++)
    {
        for (int j = 0; j < n2; j++)
        {
            if (arr1[i] == arr2[j])
                printf("\n%d", arr1[i]);
        }
    }
    printf("\n");
    return 0;
}
```

1. Structure of first participant of array.
2. Write a program to count no. of zero in array.

#include <stdio.h>

int main()

{

int arr[] = {12, 0, 34, 0, 45, 0, 9, 8, 0, 90, 0, 34};

int size = sizeof(arr) / sizeof(arr[0]);

int count = 0;

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

{ if (arr[i] == 0)

{

count++;

}

}

printf("Number of zeros in the array = %d", count);

return 0;

y

3. Write a program to find largest no. among the given elements in a integer array.

#include <stdio.h>

int main()

{ int arr[] = {12, 45, 7, 89, 23, 56, 34};

int size = sizeof(arr) / sizeof(arr[0]);

```

int largest = arr[0];
for (int i=1; i<size; i++)
{
    if (arr[i] > largest)
        largest = arr[i];
}
printf("The largest no in array : %d\n", largest);
return 0;

```

- A. Write a program to swap the values of two variables.

```

#include <stdio.h>
int main()
{
    int num1, num2, temp;
    int *ptr1, *ptr2;
    printf("Enter the first no:");
    scanf("%d", &num1);
    printf("Enter the second number:");
    scanf("%d", &num2);
    ptr1 = &num1;
    -&num2;
}
```

```

printf("Before swapping: num1 = %.d, num2 = %.d\n", num1, num2);
temp = *ptr1;
*ptr = *ptr2;
*ptr2 = temp;
printf("%.d, num2 = %.d\n", num1, num2);
return 0;
}

```

Y (Original, num1 works as an argument) Hurray

5. Write a C program to reverse a given string "Computer science".

```

#include <stdio.h> // Header file for input output
#include <string.h> // Header file for string functions
int main()
{
    char str[] = "Computer Science";
    int length = strlen(str);
    printf("Original string : %s\n", str);
    printf("Reversed string : ");
    for (int i = length - 1; i >= 0; i--)
    {
        printf("%c", str[i]);
    }
    return 0;
}

```

Y