

Given an array A of size N where the array elements contain values from 1 to N with duplicates, the task is to find total number of subarrays which start and end with the same element.

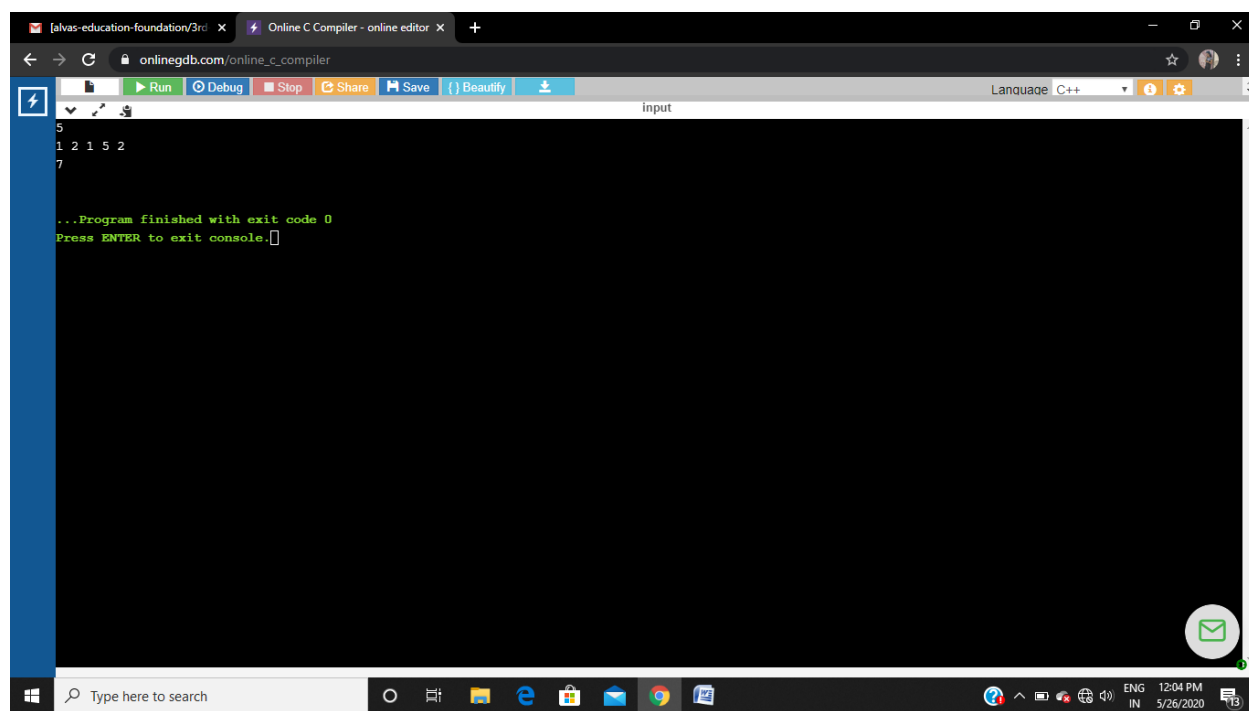
```
#include <bits/stdc++.h>

using namespace std;

void cntArray(int A[], int N)
{
    int result = 0;
    for (int i = 0; i < N; i++) {
        result++;
        int current_value = A[i];
        for (int j = i + 1; j < N; j++) {
            if (A[j] == current_value) {
                result++;
            }
        }
    }
    cout << result << endl;
}

int main()
{
    int A[100], N;
    cin >> N;
    for (int i = 0; i < N; i++)
        cin >> A[i];
    cntArray(A, N);
}
```

```
    return 0;  
}
```



Write a program in C to print all permutations of a given string

```
#include <stdio.h>

#include <string.h>

void swap (char *x, char *y)
{
    char temp;
    temp = *x;
    *x = *y;
    *y = temp;
}

void permute(char *a, int i, int n)
{
    int j;
    if (i == n)
        printf("%s\n", a);
    else {
        for (j = i; j <= n; j++)
        {
            swap((a + i), (a + j));
            permute(a, i + 1, n);
            swap((a + i), (a + j));
        }
    }
}
```

```
int main()
{
    char a[20];

    int n;

    printf("Enter a string: ");

    scanf("%s", a);

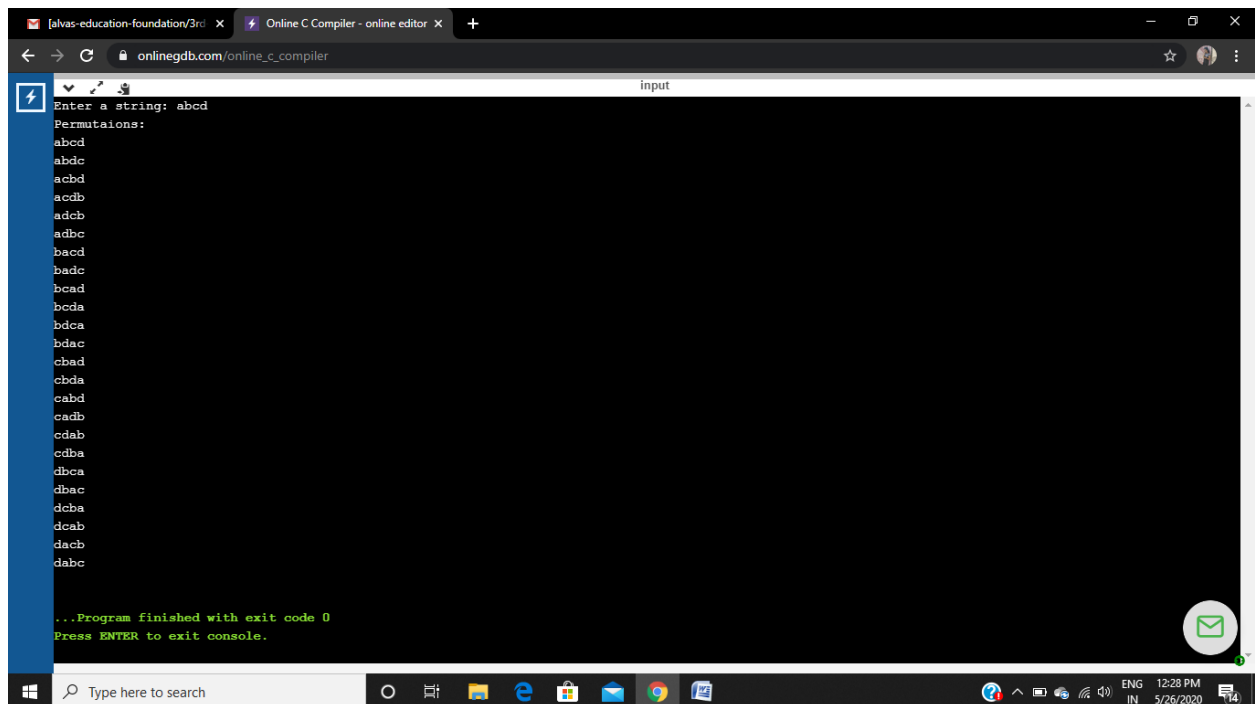
    n = strlen(a);

    printf("Permutaions:\n");

    permute(a, 0, n - 1);

    getchar();

    return 0;
}
```



The screenshot shows a web browser window with the URL `onlinegdb.com/online_c_compiler`. The browser tabs include "jalvas-education-foundation/3rd" and "Online C Compiler - online editor". The main content area is a terminal window titled "input" with a dark background. The terminal shows the following output:

```
Enter a string: abcd
Permutaions:
abcd
abdc
acbd
acdb
adcb
adbc
bacd
badc
bcad
bcda
bdca
bdac
cbda
cabd
cadb
cdab
cdba
dbca
dbac
dcba
dcab
dacb
dabc

...Program finished with exit code 0
Press ENTER to exit console.
```

The Windows taskbar is visible at the bottom, showing the search bar, task view button, and several application icons. The system clock indicates 12:28 PM on 5/26/2020.