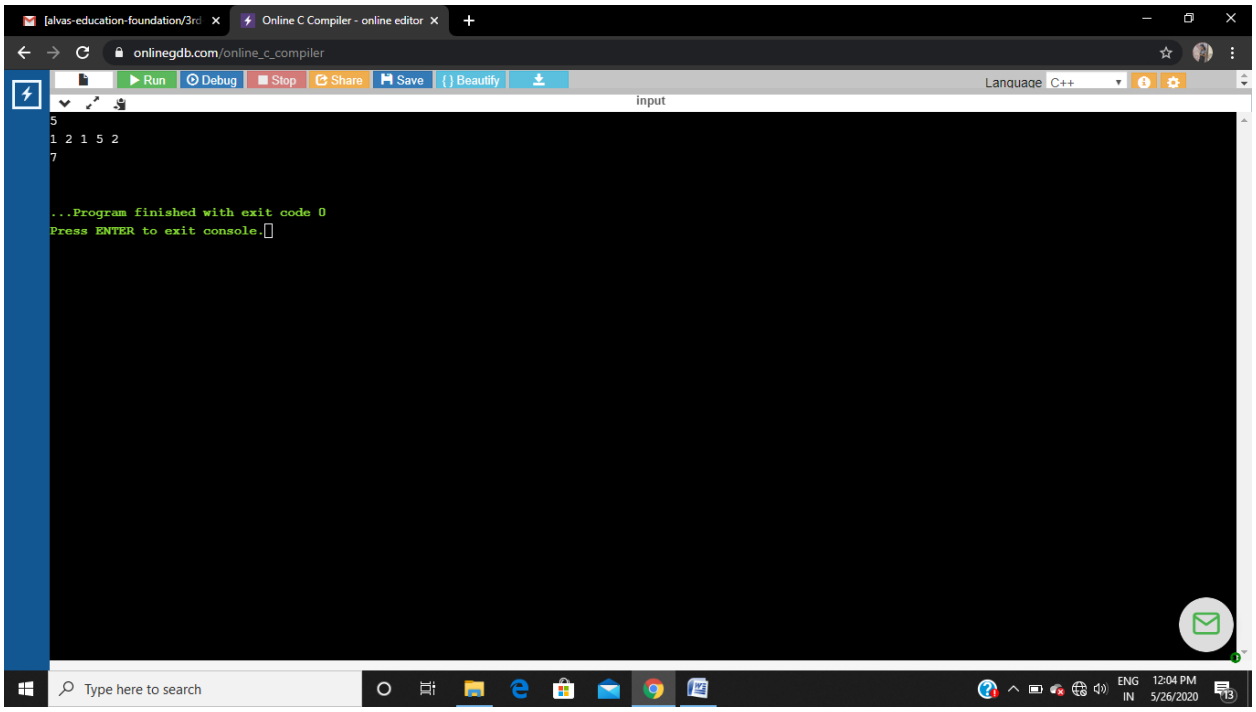
Given an array A of size N where the array elements contain values from 1 to N with duplicates, the task is to find total number of subarrays which start and end with the same element.

```
#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;
}
```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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;
}
```