```c
#include <stdio.h>

#define N       20
#define ZERO    0
#define ONE     1
#define TWO     2
#define ABS(x)  (x) * (((2 * (x)) + 1) % 2)
#define BOOLEAN unsigned short


//-------------------------------------------------------------------------------------
//                                              Equality
//                                              --------
//
// General      : Checks whether two numbers are equal in value.
//
// Parameters   :
//          number1 -  first number (int)
//          number2 -  second number (int)
//
// Return value : If there is an equality between the two numbers (BOOLEAN).
//
//-------------------------------------------------------------------------------------
// Programmer : Cohen Idan
// Student No : None
// Date       : 21.10.2019
//-------------------------------------------------------------------------------------
BOOLEAN Equality(int number1, int number2)
{
    int sub = number1 - number2;
    BOOLEAN answer = (ONE / (ABS(sub) + ONE));
           answer;
}

//-------------------------------------------------------------------------------------
//                                              Exercise 4
//                                              ----------
//
// General : The program checks several pairs of consecutive characters that are
//           equal to the last pair of characters in the array.
//
// Input   : 20 chars.
//
// Process : The program checks several pairs of consecutive characters that are
//           equal to the last pair of characters in the array.
//
// Output  : The number of consecutive character pairs that equals the last
//           pair of characters in the array (unsigned short).
//
//-------------------------------------------------------------------------------------
// Programmer : Cohen Idan
// Student No : 211675038
// Date       : 23.10.2019
//-------------------------------------------------------------------------------------
void main(void)
{
    char array[N];
    unsigned short loop_counter,
                   count = ZERO,
                   new_size_array = N - TWO;
    printf("Enter char 20 chars: \n");
        (loop_counter = ZERO; loop_counter < N; loop_counter++)
    {
        scanf("%c", &array[loop_counter]);
    }

        (loop_counter = ONE; loop_counter < new_size_array; loop_counter++)
    {
        count += Equality((int)array[loop_counter - ONE], (int)array[N - TWO]) *
                 Equality((int)array[loop_counter], (int)array[N - ONE]);
    }

```

```
73      printf("Count: %hd\n", count);
74
75  }
```