

main.c



Run





Output

Clear




```
1 #include <stdio.h>
2 #include <string.h>
3 #include <ctype.h>
4 #define ALPHABET_SIZE 26
5 void monoalphabeticSubstitution(char* plaintext,
   const char* ciphertext_alphabet) {
6     int i = 0;
7     while (plaintext[i] != '\0') {
8         if (isalpha(plaintext[i])) {
9             char base = islower(plaintext[i]) ?
               'a' : 'A';
10            char index = tolower(plaintext[i]) -
11                plaintext[i] +
                ciphertext_alphabet[base - 'a'];
12            plaintext[i] = ciphertext_alphabet[index];
13            i++;
14        }
15    }
16 }
```

Enter the plaintext message: caesar cipher
Ciphertext: zqsusn zcydsn

=== Code Execution Successful ===

 JS TS   php 

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Run

```
14     }
15 }
16 int main() {
17     char plaintext[100];
18     const char
        ciphertext_alphabet[ALPHABET_SIZE] =
            "qazwsxedcrfvtgbyhnujmikolp"; // A
            shuffled alphabet
19     printf("Enter the plaintext message: ");
20     fgets(plaintext, sizeof(plaintext), stdin);
21     plaintext[strcspn(plaintext, "\n")] = 0;
22     monoalphabeticSubstitution(plaintext,
        ciphertext_alphabet);
23     printf("Ciphertext: %s\n", plaintext);
24
25     return 0;
26 }
27
```

Output

Clear

Enter the plaintext message: caeser cipher
Ciphertext: zqsusn zcydsn

=== Code Execution Successful ===