

main.c



Run

Output

Clear

```
93 - int main() {  
94     unsigned char key[8] = "MyDESKey"; //  
        64-bit key (actually 56 bits + 8 parity  
        bits)  
95     unsigned char plaintext[8] = "DESData"; //  
        64-bit block  
96     unsigned char ciphertext[8] = {0};  
97  
98     des_encrypt(plaintext, ciphertext, key);  
99  
100    printf("Ciphertext (in hex): ");  
101    for (int i = 0; i < 8; i++)  
102        printf("%02X ", ciphertext[i]);  
103    printf("\n");  
104  
105    return 0;  
106 }  
107
```

Ciphertext (in hex): EA EF E8 BE 61 74 24 00

=== Code Execution Successful ===

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Run

Output

Clear

```
1 #include <stdio.h>
2 #include <stdlib.h>
3 #include <string.h>
4
5 #define TOTAL_ROUNDS 16
6 #define BLOCK_SIZE 64
7 #define KEY_SIZE 56
8 #define SUBKEY_SIZE 48
9
10 // --- Initial and Final Permutation Tables
    (Shortened for simplicity) ---
11 int initial_permutation[] = {
12     58, 50, 42, 34, 26, 18, 10, 2,
13     60, 52, 44, 36, 28, 20, 12, 4,
14     62, 54, 46, 38, 30, 22, 14, 6,
15     64, 56, 48, 40, 32, 24, 16, 8,
16     57, 49, 41, 33, 25, 17, 9, 1,
17     59, 51, 43, 35, 27, 19, 11, 3,
```

Ciphertext (in hex): EA EF E8 BE 61 74 24 00

=== Code Execution Successful ===