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Programiz C Online Compiler

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main.c

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```
1 #include <stdio.h>
2 #include <string.h>
3 #include <openssl/evp.h>
4 #include <openssl/rand.h>
5 void handleErrors() {
6     ERR_print_errors_fp(stderr);
7     abort();
8 }
9 int main() {
10     unsigned char plaintext[] = "This is a secret message.";
11     unsigned char key[24] = "0123456789abcdef01234567";
12     unsigned char iv[8];
13     RAND_bytes(iv, sizeof(iv));
14     unsigned char ciphertext[128], decryptedtext[128];
15     int len, ciphertext_len, decryptedtext_len;
16     EVP_CIPHER_CTX *ctx;
17     ctx = EVP_CIPHER_CTX_new();
18     EVP_EncryptInit_ex(ctx, EVP_des_ede3_cbc(), NULL, key, iv);
19     EVP_EncryptUpdate(ctx, ciphertext, &len, plaintext, strlen
```

Output

Clear

```
/tmp/uytWMyHpFW/main.c: In function 'handleErrors':
ERROR!
/tmp/uytWMyHpFW/main.c:7:5: error: implicit declaration of function
'ERR_print_errors_fp' [-Wimplicit-function-declaration]
7 |     ERR_print_errors_fp(stderr);
  |     ^~~~~~

=== Code Exited With Errors ===
```

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```
main.c
19  EVP_EncryptUpdate(ctx, ciphertext, &len, plaintext, strlen
    ((char *)plaintext));
20  ciphertext_len = len;
21  EVP_EncryptFinal_ex(ctx, ciphertext + len, &len);
22  ciphertext_len += len;
23  EVP_CIPHER_CTX_free(ctx);
24  printf("Encrypted (Hex): ");
25  for (int i = 0; i < ciphertext_len; i++)
26      printf("%02x", ciphertext[i]);
27  printf("\n");
28  ctx = EVP_CIPHER_CTX_new();
29  EVP_DecryptInit_ex(ctx, EVP_des_ede3_cbc(), NULL, key, iv);
30  EVP_DecryptUpdate(ctx, decryptedtext, &len, ciphertext,
    ciphertext_len);
31  decryptedtext_len = len;
32  EVP_DecryptFinal_ex(ctx, decryptedtext + len, &len);
33  decryptedtext_len += len;
34  decryptedtext[decryptedtext_len] = '\0';
35  EVP_CIPHER_CTX_free(ctx);
36  printf("Decrvoted: %s\n", decrvotedtext);
```

Output

Clear

```
/tmp/uytWMyHpFW/main.c: In function 'handleErrors':
ERROR!
/tmp/uytWMyHpFW/main.c:7:5: error: implicit declaration of function
'ERR_print_errors_fp' [-Wimplicit-function-declaration]
7 |     ERR_print_errors_fp(stderr);
  |     ^
=== Code Exited With Errors ===
```

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main.c



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Output

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```
22 ciphertext_len += len;
23 EVP_CIPHER_CTX_free(ctx);
24 printf("Encrypted (Hex): ");
25 for (int i = 0; i < ciphertext_len; i++)
26     printf("%02x", ciphertext[i]);
27 printf("\n");
28 ctx = EVP_CIPHER_CTX_new();
29 EVP_DecryptInit_ex(ctx, EVP_des_ede3_cbc(), NULL, key, iv);
30 EVP_DecryptUpdate(ctx, decryptedtext, &len, ciphertext,
    ciphertext_len);
31 decryptedtext_len = len;
32 EVP_DecryptFinal_ex(ctx, decryptedtext + len, &len);
33 decryptedtext_len += len;
34 decryptedtext[decryptedtext_len] = '\0';
35 EVP_CIPHER_CTX_free(ctx);
36 printf("Decrypted: %s\n", decryptedtext);
37 return 0;
38 }
39
```

```
/tmp/uytWMYHpFW/main.c: In function 'handleErrors':
ERROR!
/tmp/uytWMYHpFW/main.c:7:5: error: implicit declaration of function
'ERR_print_errors_fp' [-Wimplicit-function-declaration]
  7 |     ERR_print_errors_fp(stderr);
    |     ^~~~~~~~~~~~~~~~~~~~~
=== Code Exited With Errors ===
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