



main.c



Run

Output

Clear

```
1 #include <stdio.h>
2 #include <string.h>
3 #include <openssl/aes.h>
4 #include <openssl/rand.h>
5
6 #define BLOCK_SIZE 16
7
8 void pad_data(const unsigned char *input, int
  input_len, unsigned char *output, int
  *padded_len) {
9     int pad_len = BLOCK_SIZE - (input_len %
      BLOCK_SIZE);
10    if (pad_len == 0) pad_len = BLOCK_SIZE; //
      Always pad
11    memcpy(output, input, input_len);
12    output[input_len] = 0x80; // 1 bit
13    memset(output + input_len + 1, 0x00,
      pad len - 1);
```

```
/tmp/91Gpc0YXVZ/main.c: In function 'ecb_encrypt':
/tmp/91Gpc0YXVZ/main.c:19:5: warning:
  'AES_set_encrypt_key' is deprecated: Since OpenSSL
  3.0 [-Wdeprecated-declarations]
19 |     AES_set_encrypt_key(key, 128, &aes_key);
   |     ^~~~~~
In file included from /tmp/91Gpc0YXVZ/main.c:3:
/usr/include/openssl/aes.h:51:5: note: declared here
51 | int AES_set_encrypt_key(const unsigned char
   *userKey, const int bits,
   |     ^~~~~~
/tmp/91Gpc0YXVZ/main.c:21:9: warning:
  'AES_ecb_encrypt' is deprecated: Since OpenSSL 3.0
  [-Wdeprecated-declarations]
21 |     AES_ecb_encrypt(plaintext + i,
   ciphertext + i, &aes_key, AES_ENCRYPT);
   |     ^~~~~~
/usr/include/openssl/aes.h:63:6: note: declared here
```



main.c		Run	Output	Clear
	<pre>        padded_len); 96    cbc_decrypt(key, iv, ciphertext, padded_len         , decrypted); 97    print_hex("CBC Decrypted ", decrypted,         padded_len); 98 99    // CFB 100   cfb_encrypt(key, iv, padded, padded_len,         ciphertext); 101   print_hex("CFB Ciphertext", ciphertext,         padded_len); 102   cfb_decrypt(key, iv, ciphertext, padded_len         , decrypted); 103   print_hex("CFB Decrypted ", decrypted,         padded_len); 104 105   return 0; 106 }</pre>		<pre>/tmp/91Gpc0YXVZ/main.c: In function 'ecb_encrypt': /tmp/91Gpc0YXVZ/main.c:19:5: warning:   'AES_set_encrypt_key' is deprecated: Since OpenSSL   3.0 [-Wdeprecated-declarations] 19       AES_set_encrypt_key(key, 128, &amp;aes_key);           ^~~~~~ In file included from /tmp/91Gpc0YXVZ/main.c:3: /usr/include/openssl/aes.h:51:5: note: declared here 51   int AES_set_encrypt_key(const unsigned char           *userKey, const int bits,           ^~~~~~ /tmp/91Gpc0YXVZ/main.c:21:9: warning:   'AES_ecb_encrypt' is deprecated: Since OpenSSL 3.0   [-Wdeprecated-declarations] 21       AES_ecb_encrypt(plaintext + i,           ciphertext + i, &amp;aes_key, AES_ENCRYPT);           ^~~~~~ /usr/include/openssl/aes.h:63:6: note: declared here</pre>	