

main.c



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```
1 #include <stdio.h>
2 #include <string.h>
3 #include <stdlib.h>
4 #include <stdint.h>
5
6 #define BLOCK_SIZE 8 /* block size in bytes (example) */
7 #define BUF_SIZE 128 /* must be >= original plaintext length + BLOCK_SIZE
   padding */
8
9 /* pad buffer with "1 bit then zeros" as in your original style.
10 Returns new length after padding, or -1 on error (not enough space). */
11 static int pad80(unsigned char *buf, int cur_len, int buf_capacity) {
12     if (cur_len < 0 || buf_capacity <= 0) return -1;
13     int pad_len = BLOCK_SIZE - (cur_len % BLOCK_SIZE);
14     if (pad_len == 0) pad_len = BLOCK_SIZE;
15     if (cur_len + pad_len > buf_capacity) return -1; /* not enough space */
16
17     buf[cur_len] = 0x80;
18     for (int i = 1; i < pad_len; ++i) buf[cur_len + i] = 0x00;
19     return cur_len + pad_len;
20 }
21
22 /* Simple XOR "block cipher" primitive for demonstration.
23 key must be BLOCK_SIZE bytes (if shorter it will be repeated/truncated). */
24 static void xor_block(unsigned char *block, const unsigned char *key, int
   block_len) {
```

```
ECB Encrypted (hex): 39111A16431B16540C59070010064519080A000404174512020B53000D11170D1D0D1
A0A0D5CE574
CBC Encrypted (hex): 39111A16431B165435481D16531D534D3D421D12570A165F3F494E125A1B015222445
4185747E426
CFB Encrypted (hex): 39111A16431B165435481D16531D534D3D421D12570A165F3F494E125A1B015222445
4185747E426
```

=== Code Execution Successful ===

Activate Windows

Go to Settings to activate Windows.