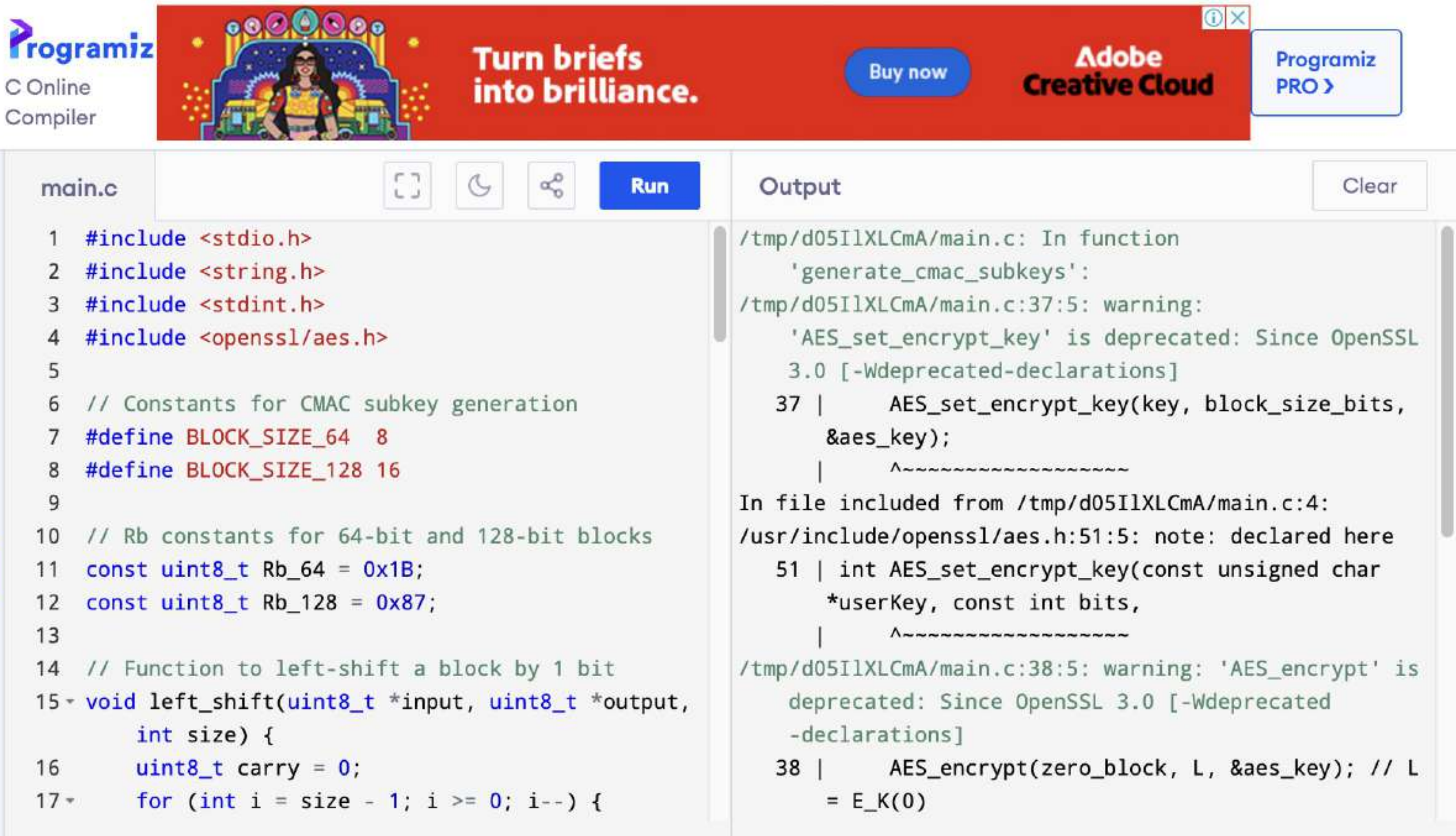


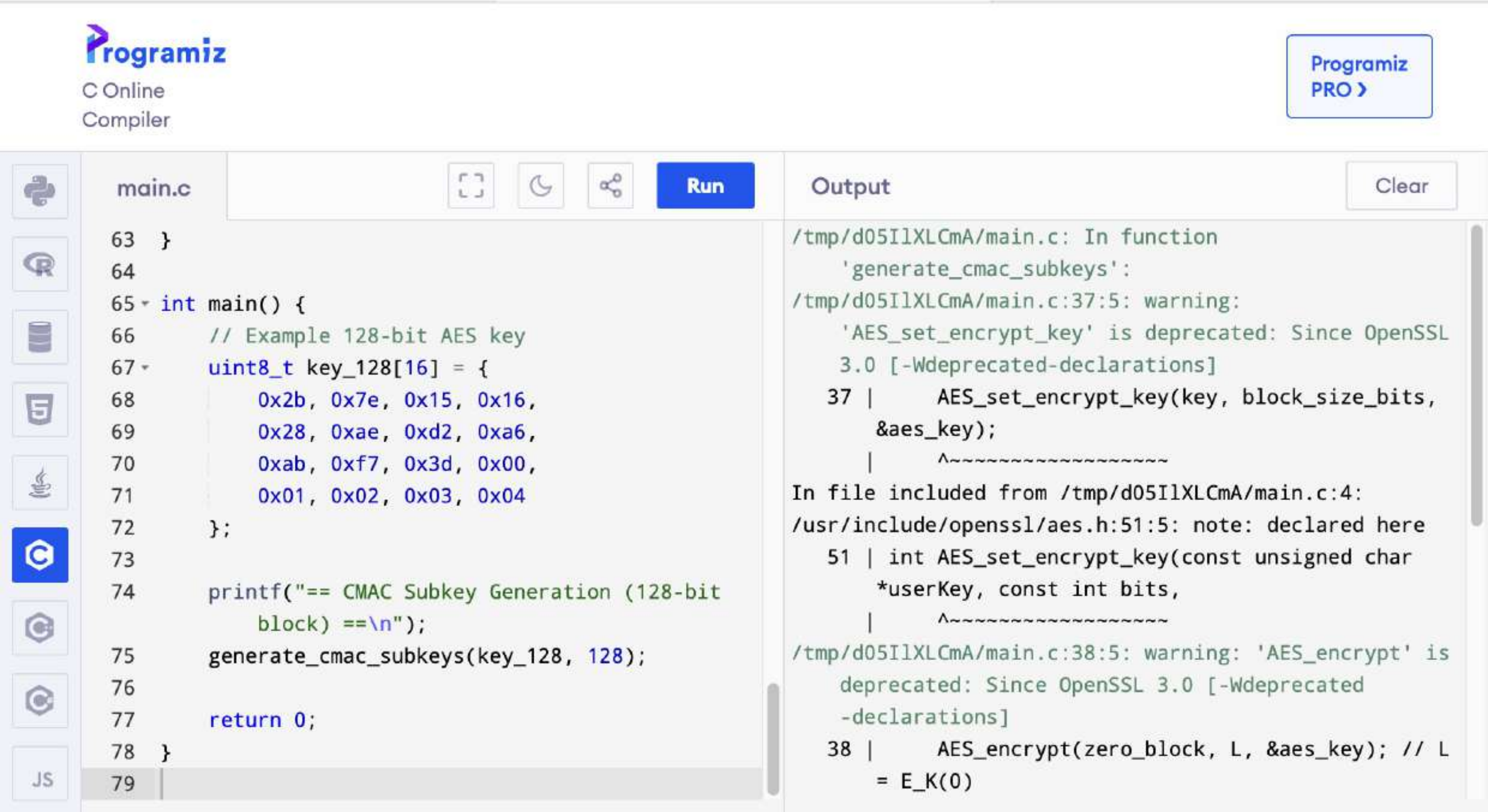
```c
#include <stdio.h>
#include <string.h>
#include <stdint.h>
#include <openssl/aes.h>

// Constants for CMAC subkey generation
#define BLOCK_SIZE_64  8
#define BLOCK_SIZE_128 16

// Rb constants for 64-bit and 128-bit blocks
const uint8_t Rb_64 = 0x1B;
const uint8_t Rb_128 = 0x87;

// Function to left-shift a block by 1 bit
void left_shift(uint8_t *input, uint8_t *output, int size) {
    uint8_t carry = 0;
    for (int i = size - 1; i >= 0; i--) {
```

```
/tmp/d05I1XLCmA/main.c: In function
    'generate_cmac_subkeys':
/tmp/d05I1XLCmA/main.c:37:5: warning:
    'AES_set_encrypt_key' is deprecated: Since OpenSSL
    3.0 [-Wdeprecated-declarations]
   37 |     AES_set_encrypt_key(key, block_size_bits,
         &aes_key);
      |     ^~~~~~~~~~~~~~~~~~~
In file included from /tmp/d05I1XLCmA/main.c:4:
/usr/include/openssl/aes.h:51:5: note: declared here
   51 | int AES_set_encrypt_key(const unsigned char
         *userKey, const int bits,
      |     ^~~~~~~~~~~~~~~~~~~
/tmp/d05I1XLCmA/main.c:38:5: warning: 'AES_encrypt' is
    deprecated: Since OpenSSL 3.0 [-Wdeprecated
    -declarations]
   38 |     AES_encrypt(zero_block, L, &aes_key); // L
         = E_K(0)
```



```c
}

int main() {
    // Example 128-bit AES key
    uint8_t key_128[16] = {
        0x2b, 0x7e, 0x15, 0x16,
        0x28, 0xae, 0xd2, 0xa6,
        0xab, 0xf7, 0x3d, 0x00,
        0x01, 0x02, 0x03, 0x04
    };

    printf("== CMAC Subkey Generation (128-bit block) ==\n");
    generate_cmac_subkeys(key_128, 128);

    return 0;
}
```

```
/tmp/d05I1XLCmA/main.c: In function
    'generate_cmac_subkeys':
/tmp/d05I1XLCmA/main.c:37:5: warning:
    'AES_set_encrypt_key' is deprecated: Since OpenSSL
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```