

```
main.c          Run      Output  
1 #include <stdio.h>  
2 #include <stdint.h>  
3  
4 #define BLOCK_SIZE_64 8  
5 #define BLOCK_SIZE_128 16  
6 #define CONSTANT_64 0x1B  
7 #define CONSTANT_128 0x87  
8  
9 void left_shift_and_xor(uint8_t *key, int block_size) {  
10     uint8_t msb = key[0] & 0x80; // Check the most significant bit  
11     for (int i = 0; i < block_size - 1; i++) {  
12         key[i] = (key[i] << 1) | (key[i + 1] >> 7);  
13     }  
14     key[block_size - 1] <<= 1; // Shift the last byte  
15  
16     // If the MSB was set, XOR with the constant  
17     if (msb) {  
18         key[0] ^= (block_size == BLOCK_SIZE_64) ? CONSTANT_64 :  
19                     CONSTANT_128;  
20     }  
21  
22 void generate_subkeys(uint8_t *key, uint8_t *subkey1, uint8_t  
    *subkey2, int block_size) {
```

Subkey 1: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00
Subkey 2: 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00

==== Code Execution Successful ===

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