

```
void decimal_to_morse(uint8_t dec, uint8_t morse_out[])
{
    uint8_t morse_lookup[10][5] = {
        {1, 1, 1, 1, 1}, //0
        {0, 1, 1, 1, 1}, //1
        {0, 0, 1, 1, 1}, //2
        {0, 0, 0, 1, 1}, //3
        {0, 0, 0, 0, 1}, //4
        {0, 0, 0, 0, 0}, //5
        {1, 0, 0, 0, 0}, //6
        {1, 1, 0, 0, 0}, //7
        {1, 1, 1, 0, 0}, //8
        {1, 1, 1, 1, 0}  //9
    };

    memcpy(morse_out, morse_lookup[dec], 5);
}
```