

---

```
1 #define DEMO 1
2
3 void AesEncrypt(unsigned char *blk, unsigned char *key, int Nr);
4 static void AddRoundKey(unsigned char *col, unsigned char *key, int round);
5 static void SubBytes(unsigned char *col);
6 static void ShiftRows(unsigned char *col);
7 static void MixColumns(unsigned char *col);
8 static unsigned char xtime(unsigned char x);
9 unsigned char gmultiply(unsigned char a, unsigned char b);
10 unsigned char gmul_inverse(unsigned char in);
11 void rotate(unsigned char * in);
12 unsigned char rcon(unsigned char in);
13 unsigned char csbox(unsigned char in);
14 void schedule_core(unsigned char * in, unsigned char i);
15 void print_expand_key(unsigned char * in);
16
```