

```

1  #include <EEPROM.h>
2
3  #define EEPROM_SIZE 512
4
5  void storeAttendance(byte* uid) {
6      int address = findFreeAddress();
7      if (address + 4 < EEPROM_SIZE) {
8          for (int i = 0; i < 4; i++) {
9              EEPROM.write(address + i, uid[i]);
10         }
11     }
12 }
13
14 void retrieveAttendance() {
15     Serial.println("Attendance Log:");
16     for (int address = 0; address < EEPROM_SIZE; address += 4) {
17         byte uid[4];
18         for (int i = 0; i < 4; i++) {
19             uid[i] = EEPROM.read(address + i);
20         }
21         if (uid[0] != 0xFF) {
22             Serial.print("UID: ");
23             for (int i = 0; i < 4; i++) {
24                 Serial.print(uid[i], HEX);
25                 if (i < 3) Serial.print(":");
26             }
27             Serial.println();
28         }
29     }
30 }
31
32 int findFreeAddress() {
33     for (int address = 0; address < EEPROM_SIZE; address += 4) {
34         if (EEPROM.read(address) == 0xFF) {
35             return address;
36         }
37     }
38     return EEPROM_SIZE;
39 }
40

```