

```
1  #include "stdio.h"
2  #include "reg51.h"
3  union {
4      char data_str[8];
5      struct {
6          int a;
7          int b;
8          long int c;
9
10         }data_var;
11     }shared_information;
12 void main()
13 {
14     int i;
15     SCON= 0x52;
16     TMOD = 0x20;
17     TCON = 0x69;
18     TH1 = 0xF3;
19     shared_information.data_var.a=100;
20     shared_information.data_var.b=1000;
21     shared_information.data_var.c=100000000;
22     for(i=0;i<8;i++)
23     {
24         printf("data[%d]=%c,\n",i,shared_information.data_str[i]);
25     }
26     while(1);
27 }
```