```c
1    #include "stdio.h"
2    #include "reg51.h"
3    struct student{
4                 char name[30];
5                 char gender;
6                 int age;
7                 long int num;
8               };
9    xdata struct student stu[2],*p;
10   int main()
11   {
12       int i;
13      SCON= 0x52;
14      TMOD = 0x20;
15      TCON = 0x69;
16      TH1 = 0xF3;
17      for(i=0;i<2;i++)
18       {
19         p=&stu[i];
20         printf("please input stu[%d].name\n",i);
21         scanf("%s",p->name);
22         getchar();
23         printf("please input stu[%d].gender\n",i);
24         scanf("%c",&p->gender);
25         putchar('\n');
26         printf("please input stu[%d].age\n",i);
27         scanf("%d",&p->age);
28         printf("please input stu[%d].num\n",i);
29         scanf("%ld",&p->num);
30       }
31      putchar('\n');
32      for(i=0;i<2;i++)
33      { p=&stu[i];
34         printf("the following students information is:\n");
35         printf("stu[%d].name=%s, ",i,p->name);
36         printf("stu[%d].gender=%c, ",i,p->gender);
37         printf("std[%d].age=%d, ",i,p->age);
38         printf("std[%d].num=%ld, ",i,p->num);
39         putchar('\n');
40      }
41      return 0;
42   }
```