

```
1  #include <stdio.h>
2
3  struct MyStruct
4  {
5      int i;
6      float f;
7      double d;
8      char c;
9  };
10
11 union MyUnion
12 {
13     int i;
14     float f;
15     double d;
16     char c;
17 };
18
19 int main(void)
20 {
21     //variable declarations
22     struct MyStruct s;
23     union MyUnion u;
24
25     //code
26     printf("\n\n");
27     printf("Members Of Struct Are : \n\n");
28
29     s.i = 9;
30     s.f = 8.7f;
31     s.d = 1.233422;
32     s.c = 'P';
33
34     printf("s.i = %d\n\n", s.i);
35     printf("s.f = %f\n\n", s.f);
36     printf("s.d = %lf\n\n", s.d);
37     printf("s.c = %c\n\n", s.c);
38
39
40     printf("Addresses Of Members Of Struct Are : \n\n");
41     printf("s.i = %p\n\n", &s.i);
42     printf("s.f = %p\n\n", &s.f);
43     printf("s.d = %p\n\n", &s.d);
44     printf("s.c = %p\n\n", &s.c);
45
46     printf("MyStruct s = %p\n\n", &s);
47
48     printf("\n\n");
49     printf("Members Of Union Are : \n\n");
50
51     u.i = 3;
52     printf("u.i = %d\n\n", u.i);
```

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53
54     u.f = 4.5f;
55     printf("u.f = %f\n\n", u.f);
56
57     u.d = 5.12764;
58     printf("u.d = %lf\n\n", u.d);
59
60     u.c = 'A';
61     printf("u.c = %c\n\n", u.c);
62
63
64     printf("Addresses Of Members Of Union Are : \n\n");
65     printf("u.i = %p\n\n", &u.i);
66     printf("u.f = %p\n\n", &u.f);
67     printf("u.d = %p\n\n", &u.d);
68     printf("u.c = %p\n\n", &u.c);
69
70     printf("MyUnion u = %p\n\n", &u);
71
72     return(0);
73 }
74
```