

```

// Filename: Address.c
01: #include <stdlib.h>
02:
03: int      global_variable;
04: static int file_static_variable;
05:
06: void func1(void) {
07:     int      func1_variable;
08:     static int func1_static_variable;
09:
10:     printf("&func1_variable..%p\n", &func1_variable);
11:     printf("&func1_static_variable..%p\n", &func1_static_variable);
12: }
13:
14: void func2(void) {
15:     int      func2_variable;
16:     printf("&func2_variable..%p\n", &func2_variable);
17: }
18:
19: int main(void) {
20:     int *p;
21:
22:     printf("&func1..%p\n", func1);
23:     printf("&func2..%p\n", func2);
24:
25:     printf("string literal..%p\n", "abc");
26:     printf("&global_variable..%p\n", &global_variable);
27:
28:     printf("&file_static_variable..%p\n", &file_static_variable);
29:
30:     func1();
31:     func2();
32:
33:     p = malloc(sizeof(int));
34:     printf("malloc address..%p\n", p);
35:
36:     return 0;
37: }

```

```

c:\D:\MY_KUT_DATA\2006_2\0.Data Structure\Projects\Wl...
&func1..00401005
&func2..0040100A
string literal..004220E4
&global_variable..00427E30
&file_static_variable..00427C3C
&func1_variable..0012FF24
&func1_static_variable..00427C40
&func2_variable..0012FF24
malloc address..00370FE0
Press any key to continue_

```

- 0x00427C40 - &func1_static_variable
- 0x00427C3C - &file_static_variable
- 0x00427E30 - &global_variable
- 0x004220E4 - string_literal
- 0x0040100A - &func2
- 0x00401005 - &func1
- 0x00370FE0 - malloc address
- 0x0012FF24 - &func1_variable
- 0x0012FF24 - &func1_variable

문제 1. &func1_variable 과 &func2_variable의 값이 같은 이유는?

문제 2. 먼저 다음을 보고 위 코드를 수정하라.

```
void func1_5(void) {  
    int                func1_5_variable;  
    printf("&func1_5_variable..%p\n", &func1_5_variable);  
}
```

```
void func2(void) {  
    int                func2_variable;  
    printf("&func2_variable..%p\n", &func2_variable);  
    func1_5();  
}
```

위와 같이 수정했을 때에 &func1_variable, &func1_5_variable, &func2_variable 의 값은?
그 이유는?