1번 문제 제출완료

The given source code has some errors. Modify it properly to print out information about the products included in the following table.

name	price	quantity
Tomato	150	5
Apple	100	10
Banana	200	3
Carrot	50	7
Pear	300	2

You are not allowed to add new variables and functions.

예시 1

출력

```
Product␣name:␣Tomato↵
Product␣price:␣150won↵
Product␣quantity:␣5↵
↵
Product␣name:␣Apple↵
Product␣price:␣100won↵
Product␣quantity:␣10↵
↵
Product␣name:␣Banana↵
Product␣price:␣200won↵
Product␣quantity:␣3↵
↵
Product␣name:␣Carrot↵
Product␣price:␣50won↵
Product␣quantity:␣7↵
↵
Product␣name:␣Pear↵
Product␣price:␣300won↵
Product␣quantity:␣2↵
↵
The␣total␣to␣buy␣all␣the␣products␣in␣the␣table␣:␣3300
```

* 입출력 형식을 잘 지켜주세요

2번 문제 제출완료

Complete the **stud_print()** and **stud_swap()** and the corresponding calling code in the main().

The stud_print() should work the same as the stud_printx() while the two functions differ in their parameters.

The stud_swap() should swap the contents of 2 STUD type variables. Note that you need to define its parameters appropriately.

입/출력 예시

␣ : 공백 ↵ : 줄바꿈 ⇥ : 탭

예시 1

출력

```
[1:Choi]␣=␣9.900000↵
[2:Park]␣=␣0.100000↵
[2:Park]␣=␣0.100000↵
[1:Choi]␣=␣9.900000↵
```

※ 입출력 형식을 잘 지켜주세요

3번 문제 제출완료

Complete the **stud_get_last()** and **stud_compare_points()** explained in the lecture slide - "Topic-9 Structure". Refer to pages 37, 39, and 42.

Note that, contrary to the source code shown on page 39, **you are not allowed to use local variables** in implementing your **stud_get_last()**;

입/출력 예시

␣ : 공백 ↵ : 줄바꿈 ⇥ : 탭

예시 1

출력

```
Choi␣got␣an␣equal␣or␣higher␣points␣than␣Jeon↵
Choi␣got␣an␣equal␣or␣higher␣points␣than␣Moon↵
```

* 입출력 형식을 잘 지켜주세요

4번 문제 제출완료

You are given a function named "xtime()" returning a random time between [2020/1/1, 00:00:00 ~ 2020/12/31, 23:59:59].

The return value of "xtime()" is encoded as the same as the time() defined in <time.h>. The time value returned by xtime() is determined by the parameter time_index.

Complete the function **"void print_local_time(time_t t)"** printing out the given time in local time using the localtime() defined in <time.h>.

The required output form is as below.

Ex) 2020/1/21, 23:30:40, Tuesday

입/출력 예시

␣ : 공백 ↵ : 줄바꿈 ↹ : 탭

예시 1

입력

```
0
```

출력

```
2020/1/21,␣23:30:40,␣Tuesday
```

예시 2

입력

```
5
```

출력

```
2020/6/1,␣03:59:08,␣Monday
```

5번 문제 제출완료

Complete the **stud_print_array_in_decreasing_order(STUD *pnucse)** that prints out an array of STUD type whose address is given as pnucse in the **decreasing** order of points.

You can use the following functions whose source codes are hidden on purpose.

- void stud_print(STUD *ps);
- void stud_swap(STUD *a, STUD *b);
- STUD * stud_get_last(STUD *ps_array);
- int stud_compare_points(STUD *ps1, STUD *ps2);
- STUD * stud_get_lowest_points(STUD *ps_begin, STUD *ps_end);

입/출력 예시

␣ : 공백 ↵ : 줄바꿈 ⇥ : 탭

예시 1

입력

```
0
```

출력

```
[1:Choi]␣=␣9.900000↵
[5:Moon]␣=␣9.500000↵
[6:Kang]␣=␣7.000000↵
[3:Kim]␣=␣5.000000↵
[4:Lee]␣=␣3.000000↵
[7:Jeon]␣=␣0.900000↵
[2:Park]␣=␣0.100000↵
```