Basic Computer Programming

Assignment #2

Electrical & Electronics Engineering Chung-Ang University

Problem

- (A) Implement the function "cal_total_score".
- In each student, total_score must be the sum of prob_1, prob_2, and prob_3.
- (B) Implement the function "student_bb_sort".
 - The student array "s" must be sorted according to total_score.
 - Bubble sort algorithm should be used for the sorting.
- *** The codes outside the functions must not be changed. ***
- *** The execution result must be the same as the next slide ***

Expected Outputs

```
Microsoft Visual Studio 디버그 콘솔
Student O
P1: 12 P2: 18 P3: 15
Student 1
P1: 11 P2: 30 P3: 5
Student 2
P1: 19 P2: 19 P3: 3
Student 3
P1: 15 P2: 6 P3: 26
Student 4
P1: 2 P2: 28 P3: 2
Student 5
P1: 12 P2: 26 P3: 23
Student 6
P1: 28 P2: 7
                 P3: 32
Student 7
P1: 25   P2: 3     P3: 34
Student 8
P1: 23 P2: 23 P3: 22
Student 9
P1: 27 P2: 9 P3: 16
Student 10
P1: 18 P2: 7
                 P3: 12
Student 11
P1: 19 P2: 10 P3: 33
Student 12
P1: 18 P2: 20 P3: 36
Student 13
P1: 25 P2: 24 P3: 12
Student 14
Student 16
P1: 24 P2: 29 P3: 28
Student 17
P1: 15 P2: 23 P3: 38
Student 18
P1: 28 P2: 20 P3: 4
Student 19
P1: 22 P2: 20 P3: 19
```

```
Student O
                    Score: 45
                    Score: 46
Student 1
Student 2
                    Score: 41
                    Score: 47
Score: 32
Score: 61
Score: 67
Student 3
Student 4
Student 5
Student 6
                    Score: 67
Score: 68
Score: 52
Score: 37
Score: 62
Score: 74
Student 7
Student 8
Student 9
Student 10
Student 11
Student 12
                    Score: 61
Student 13
                   Score: 41
Score: 69
Score: 81
Student 14
Student 15
Student 16
Student 17
                    Score: 76
                    Score: 52
Score: 61
Student 18
Student 19
After Bubble Sort
Student 4
                    Score: 32
                                         Grade: C
                                        Grade: C
Grade: C
                    Score: 37
Student 10
                    Score: 41
Student 2
Student 14
                    Score: 41
                                        Grade: C
                    Score: 45
                                        Grade: C
Student O
Student 1
                    Score: 46
                                        Grade: C
                    Score: 47
                                        Grade: C
Grade: B
Student 3
                    Score: 52
Score: 52
Score: 61
Student 9
Student 18
                                        Grade: B
                                        Grade: B
Grade: B
Student 5
                    Score: 61
Score: 61
Student 13
                                        Grade: B
Grade: B
Student 19
                    Score: 62
Student 7
                    Score: 62
Score: 67
                                        Grade: B
Student 11
                                        Grade: A
Student 6
Student 8
                    Score: 68
                                        Grade: A
Student 15
                    Score: 69
                                        Grade: A
                    Score: 74
Student 12
                                         Grade: A
                    Score: 76
Student 17
                                        Grade: A
Student 16
                    Score: 81
                                         Grade: A
```

Submission files

- The submission files should be a '.c' file.
- The c file should be uploaded on the "Assignment #2" in "과 제 및 평가".