Computer Organization and Assembly Languages #1

Bubble Sort

Requirement:
You are required to write a MASM assembly program to implement bubble sort. Please put the constant input data, a number series, at the data section of the code, and use “00h” to mark the end of your input data. You can store the sorting result in memory and use MASM debugging tools to show the result or you can print the result series on the screen. Just let TAs see your sorting result.

Input data example:
Pa BYTE 09h,33h,78h,02h,07h,44h,67h,79h,70h,58h,43h,14h,17h,10h,00h

Grade:
Basic 70%: program execution correctness
Report 25%
Bonus 10%: Write another version using “Quick Sort”.
Please do this homework by yourself! If we find any plagiarism, we will give zero point to all copies of that version.
If you cannot finish your program before due time, you can also deliver your program (someone call this “corpse”) to TAs. But please tell us in your report about your work and what problems you meet. TAs will consider your work and give you some points.

Due: 11/16 Tuesday 5:00 pm.
Please email your homework to jason@voip.csie.ntu.edu.tw before 5:00 pm.

Subject : [ASM HW1] Student_ID Name
Please attach two files, your source code and your report, to your mail.
The subject of your mail must be in correct form, or TAs won’t receive your homework. After receiving your homework, TAs will send an acknowledgement to you.

Misc.:
Additionally, We only allow you send the homework in three days after the due day. But your score will be multiplied by 0.8 each day after the due day. So please hand in your homework in time! After three days, TAs won’t accept your homework anymore.