The following is a list of possible questions for our quiz on November 13th. Some of the questions will not be asked in the quiz. All the questions that will appear in the quiz will appear exactly as shown below (however, numeric parameters may be changed). The quiz is closed textbook, closed notes and closed neighbors. Note that the questions, which did not appear in this quiz, still may appear in the exams. You will find a solution for these questions during lectures.

#1: What is the advantage of using segmentation?

#2: When a processor uses “memory segmentation”, what does each “memory address” generated by the processor consists of?

#3: Sketch the structure of “segmentation table (or “segmentation descriptor table”)”.

#4: How is “segmentation fault” caused (make sure to answer this question using the appropriate technical term(s) the CS286 lectures already covered)?

#5: Which of “page fault” or “segmentation fault” is fatal?

#6: What should you check in your program source code files, when (or after) your programs stop running because of a segmentation fault? Mention at least two.

#7: Show a sketch of “memory segmentation” combined with “virtual memory”.

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