The following is a list of possible questions for our quiz on October 31st. 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: In the virtual memory, how many disk accesses can happen in the worst case? This question assumes that the virtual memory is used for holding the VMT.

#2: Sketch the structure of “segmentation table (A.K.A. “segmentation descriptor table’’”).

#3: What does “base” in the segmentation table mean?

#4: What does “limit” in the segmentation table mean?

#5: What is the advantage of using segmentation?

#6: How is “segmentation fault” caused?

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

#8: As we discussed in the classroom, if the segment offset exceeds its segment limit, the offset address is usually useless. Why?

#9: You wrote a program using C++. After you successfully compiled your program, you got a segmentation fault error during run-time. What would you do to eliminate the segmentation fault (describe what you would do as a part of your debugging)?