CS146-Lab8 Due: April-13-2016 Name:

Reading assignments:

Read lecture notes and chapter-7

Answer the following questions in one word document. Then email it to me to [sjsumortezaie@gmail.com](mailto:sjsumortezaie@gmail.com)

The subject of your email must be CS146Lab8Section#. Please read the Format of the lab.

1. Assume we have the following numbers:

12 60 32 44 30 99 3 39 15 18 100 5

Use quick sort and find the list of values after the first partition. Show the pivot value.

What are the pivot values for each new partition?

1. Assume we have the following numbers:

12 60 32 44 30 99 3 39 15 18 100 5

Use mergesort to sort the above values.

1. Assume we have the following numbers:

12 60 32 44 30 99 3 39 15 18 100 5

Use radix sort to sort them.

1. Implement the mergesort without using recursion and test it with:

12 60 32 44 30 99 3 39 15 18 100 5

1. Chapter-7 Exercise7.19
2. Chapter-7 Exercise 7.30