**­Computer Architecture Lab (CS 341)**

**Assignment 3: Basic programming in MIPS assembly** Due Date: 15/09/20

(Lab Assignment 2)

Write a MIPS assembly program which does the following:

It accepts the following inputs

(number of integers)

– a list of integers (to be stored in the data segment of your program

– a “small” positive integer

Your program finds the th largest value in the list and outputs it. The time complexity of your algo should be O().

Note that what’s required is the th largest value, not the value of the th largest integer.

A sample run is shown below.

Program: Enter No. of integers in list

User: 12

Program: Enter list

User: 5, 9, -11, 27, 3, -2, 8, 305, 27, 15, -7, 0

Program: Enter (a positive integer)

User: 3

Program: 15

Input constraints: 1<=n<=50 and 1<=k<=5.