## **CSCI 305 Homework 6**

## Due Date: April 27, 2018 @ Beginning of Class

Name:		

## **Cost Models**

- 1. For each of the following, give a formula for computing the address to use for the array reference. Assume that the array A is allocated as single block at address base, and let size be the size of an individual array element.
- 2. The element A[i], where  $0 \le i \le n$
- 3. The element A[i][j][k], where  $0 \le i \le m$ ,  $0 \le j < n$ , and  $0 \le k < p$ , and where the array is allocated in column-major order.

## Concurrency

1. What are the three possible levels of concurrency in programs?

2.	Describe the logical architecture of an MIMD computer.
3	Define the following terms:
0.	synchronization:
	deadlock:
	race condition:
4.	What is the best action a system can take when deadlock is detected?
5.	How are explicit locks supported in Java?