Lab 10 - In Lab Assignment
Due end of the lab session

Acknowledge your collaborators or source of solutions, if any. **Submission by the end of the LAB is required.** Please type your answers, handwritten submission will not be accepted. Do all of the following.

1. If X, Y, and Z are inserted into a stack and a queue, what will be the order of removal for the stack? For the queue?

2. Name the functions according to their descriptions.

Function	Description
	A function that allocates storage space for a single data object that is referenced through a pointer.
	A function that allocates storage space for an array of objects.
	A function that returns the storage space of the heap.

3. Assume the following data type definition and declaration:

```
typedef struct node_s {
int num;
struct node_s *restp;
} node_t;
. . .
node_t *headp, *cur_nodep;
```

Write a for loop header that causes cur_nodep to point in succession to each node of the linked list whose initial pointer is stored in headp. The loop should exit when cur_nodep reaches the end of the list.