WORKSHEET 5

1. A linked list is a linear data structure where each element

**Answer = c. Stores data and a reference to the next element**

2. In asymptotic notation, we compute

**Answer = a. Time complexity**.

3. The minimum size of a MyNode in a single linked list depends on the system architecture. Which of the following does not affect the minimum size of a MyNode in a singly linked list?

**Answer = b. Number of elements in the entire linked list**

4. The best case time complexity for traversing a singly linked list is \_\_\_\_\_.

**Answer = c. O(n)**

5. A stream is

**Answer = c. a source or destination of data that may be associated with a disk or other I/O devices**

6. Identify the token pasting operator.

**Answer = d. ##**

7. Which of the following is the correct function prototype for the function main()?

**Answer = d. main(int argc,char \*argv[])**

8. Identify the valid data type of the variable fraction in the following code. typedef float HOST; HOST fraction;

**Answer = d. float and HOST**

9. It is required to insert a MyNode at the end of a singly connected linked list having n MyNodes. How many MyNodes are to be traversed for this insertion?

**Answer = c. n**

10. n elements of a queue are to be reversed using another queue. The number of add and remove operations required to do so is

**Answer = 4 x n**