**Task 1**

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

**Ans:** c. Stores data and a reference to the next element

1. In asymptotic notation, we compute

**Ans:** a. Time complexity.

1. The minimum size of a MyNode in a singly 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?

**Ans:** b. Number of elements in the entire linked list

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

**Ans:** c. O(n)

1. A stream is

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

1. Identify the token pasting operator.

**Ans:** c. #

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

**Ans:** d. main(int argc,char \*argv[])

1. Identify the valid data type of the variable fraction in the following code.

typedef float HOST;

HOST fraction;

**Ans:** d. float and HOST

1. 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?

**Ans:** c. n

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

**Ans:** b. 4 x n