## C201 Review Questions #12

For the given list below and with the type declarations also given, answer the following questions.

```
struct Node
{
   char Ch;
   Node *Link;
};

typedef Node* NodePtr;

List

'a'
'b'
'c'

|
```

1) Draw a picture of List after each of the functions below is called and returned to main. Each function is independent of the other.

```
void DoSomething1 (NodePtr & List)
{
   List = new(nothrow) Node;
   List->Ch = 'z';
   List->Link = NULL;
}

void DoSomething2 (NodePtr List)
{
   NodePtr Searcher = List;
   while (Searcher->Link != NULL)
        Searcher = Searcher->Link;
   Searcher->Link = List;
}
```

- 2) What would be the effect of changing List to a value parameter in DoSomething1?
- 3) What would be the effect of changing List to a reference parameter in DoSomething2?