Your Name: _____   TA's Name: _____
ID#:   _____   Section #:   _____

Take Home: Quiz 2 (15 pts) - Dynamic Singly Linked Lists

1. Write a function `deleteAtPositionN()` for a *singly-linked* list that has the following declaration and precondition:

```
int deleteAtPositionN (struct node **pHead, int n,
                       int *pData);
```

Precondition: n > 0.

```c
int deleteAtPositionN (Node **pHead, int n, int *pData) {
  Node *pTemp = NULL,
       *pPrev = NULL;
  pTemp = *pHead;
  if (*pHead == NULL)
    return 0;
  else if (n == 1) {
    *pHead = (*pHead)->pNext;
  } else {
    for (int i = n ; i > 1; i --) {
      pPrev = pTemp;
      pTemp = pTemp->pNext;
    }
    pPrev->pNext = pTemp->pNext;
  }
  *pData = pTemp->data;
  free(pTemp);
  return 1;
}
```