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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: $n > 0$.

The function should find the node at position n , and delete it. The *data* should be returned indirectly through `pData`, then the node must be released back to the *heap*. The first node in the list starts at position 1. The function should return 1 if a node was deleted; 0 otherwise. Assume that `struct node` is defined as follows:

```
struct node  
{  
    int data;  
    struct node *pNext;  
};
```