

## 2) (5 pts) ALG (Linked Lists)

Suppose we have a singly linked list implemented with the structure below and a function that takes in the head of the list.

```
typedef struct node {
    int num;
    struct node* next;
} node;

void whatDoesItDo (node * head) {

    int tot = 0;
    while (head != NULL) {
        head->data += tot;
        tot = head->data;
        head = head->next;
    }
}
```

If we call whatDoesItDo(head) on the following list, show the list after the function has finished.

head → 3 → 9 → 7 → 1 → 4 → NULL? Please fill in the designated slots below.

→ \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → \_\_\_\_ → NULL