

## 3) (5 pts) ALG (Stack)

Consider the following C code that represents a stack that holds a list of values. Show the contents of the stack **right after** each indicated point commented (A, B, and C), under the assumption that the followStack function is called with a pointer to a stack\_t that is empty.

```
typedef struct node_s{
    int data;
    struct node_s * next;
}node_t;

typedef struct{
    node_t * top;
}stack_t;

void push(stack_t * s, int data);
int pop(stack_t * s);

void followStack(stack_t * myStack){
    int x;
    push(myStack, 12);
    push(myStack, 5);
    push(myStack, -8);
    x = pop(myStack);
    x = pop(myStack);
    push(myStack, 23); //A
    x = pop(myStack);
    push(myStack, 17);
    push(myStack, -3);
    x = pop(myStack);
    x = pop(myStack);
    push(myStack, 9);
    push(myStack, 6); //B
    push(myStack, -14);
    x = pop(myStack);
    x = pop(myStack);
    x = pop(myStack);
    push(myStack, 34);
    x = pop(myStack); //C
}
```

