CS 261 Lab #4
Linked lists & palindromes
A linked list is a set of nodes that are linked to one another.
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Unlike an array, they don’t need to be contiguous.
struct node {
    int value;
    struct node *next;
}
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}

**value** holds the data
struct node {
    int value;
    struct node *next;
}

value holds the data

next points to the next node in the list
```c
struct node {
    int value;
    struct node *next;
};
```

**value** holds the data

**next** points to the next node in the list

if **next** is **NULL**, we’ve reached the end of the list
The linked list data type can be used to implement more abstract data types.

For this lab, you’ll implement a stack with a singly-linked list.
The **linked list** data type can be used to implement more abstract data types.

For this lab, you’ll implement a **stack** with a **singly-linked list**.

Then, you’ll use your implementation to write a **palindrome detector**.
Palindromes are words or phrases that are spelled the same forwards and backwards.
We can use **stacks** to detect them!
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taco cat
We can use **stacks** to detect them!

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We can use **stacks** to detect them!
1) Implement a stack using a **singly-linked** list

2) Finish the **palindrome detector**

http://dropline.net/cs261/lab4