CS220 - Computer System II
Assignment 5 (100 points)

Due: 10/07/2016, 11:59pm

1 Instructions

- Answer the questions individually. Group effort is not allowed.

- Reading: `http://c-faq.com`, K&R C, chapter 1-6.

2 Questions

1. You are to implement a function: `Node *my_reverse(Node *head)` that reverses a list given at the Node. (100 points) The following definitions are provided.

```
1    struct _PointsTo {
        struct _PointsTo *next;
3    };
     typedef struct _PointsTo PointsTo;
5
     struct _Node {
7      union {
          int n;
9          char c;
        } val;
11      PointsTo *ptr;  /* ptr points to the ptr variable in the next node
        and NOT the beginning of the Node */
        int var;
13    };
     typedef struct _Node Node;
```

Note that the ptr field in Node points to the ptr field in the next node, and not the beginning of the Node.

3 Submitting your code

You will submit your code on hackerrank and upload your code to Blackboard.