

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 _Node {
2      union {
3          int n;
4          char c;
5      } val;
6      void *ptr; /* ptr points to the ptr variable in the next node and
7                  NOT the beginning of the Node */
8      int var;
9  };
10 typedef struct _Node Node;
```

Note that the ptr field in Node points to (i.e., contains the address of) 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.