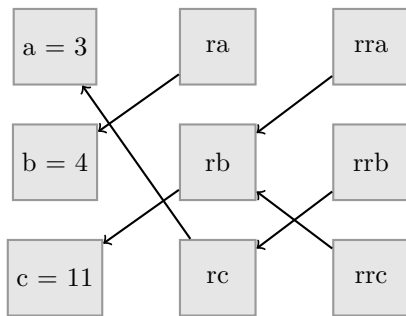


CS314 Homework 4

Sample solution

Spring 2014

1. (a) `int *ra;`
`int *rb;`
`int *rc;`
`int **rra;`
`int **rrb;`
`int **rrc;`



- (b)
- (c) 3 4 11
4 11
11 3 11
- (d) One illegal statement would be “`ra = *a;`”. Many other statements are possible.
2. We can do this a couple of ways. One is to save the next pointer:

```
/* DEALLOCATE LIST */
for (current_cell = head; current_cell != NULL; ) {
    listcell *temp = current_cell->next;
    free(current_cell);
    current_cell = temp;
}
```

Another is to advance `current_cell` and then free the old cell:

```
/* DEALLOCATE LIST */
for (current_cell = head; current_cell != NULL; ) {
    listcell *temp = current_cell;
    current_cell = current_cell->next;
    free(temp);
}
```