Name:

Consider the following AVL tree.

```
     6
    / \  
   2   10
      /  
     14
```

Give an example of a value you could insert to cause:

(a) A single rotation

(b) A double rotation

(c) No rotation

Consider the following key-value pairs:

(1, a), (4, b), (2, c), (17, d), (12, e), (9, e), (19, f), (4, g), (8, c), (12, f)

(a) Suppose we have a hash table implemented using separate chaining. This hash table has an internal capacity of 10. Its buckets are implemented using a linked list where new elements are appended to the end. Do not worry about resizing.

Show what this hash table internally looks like after inserting the above key-value pairs in the order given using the hash function $h(x) = x$. 

Another question

Do you have any questions about this course? It could be about policy, content, instructors, TAs, etc.