The Map ADT

KV, Winter 2020

```
// Map.h
#include "Pair.h"
#include "Set.h" // insert returns iterator!!!
using namespace std;
template <typename K, typename V>
class Map
public:
    Map() {}
    void printMap() const
         typename Set<Pair<K,V> >::iterator itr =
         themap.begin();
         for (; itr != themap.end(); ++itr)
             cout << (*itr).first << ":"</pre>
             << (*itr).second << endl;
        return;
    }
    V & operator [](K index)
         typename Set<Pair<K,V> >::iterator here;
        Pair<K,V> probe(index, V());
        here = themap.insert(probe);
        return (*here).second;
    }
```

```
void remove(K & key)
{
         Pair<K,V> probe;
         probe.first = key;
         themap.remove(probe);
         return;
     }
private:
         Set<Pair<K,V> > themap;
};
```