Top K frequent elements

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class Solution {
public:
    vector<int> topKFrequent(vector<int>& nums, int k) {
      int i;
      vector<int> awn;
      unordered_map<int, int> map;
      int cur_top;
      stack<int> st;
      for (i = 0; i < nums.size(); i++) {</pre>
        map[nums[i]] += 1;
      }
      for (i = 0; i < k; i++){
        cur_top = 0;
        st.push(0);
        for (auto i: map){
          if (i.second > cur_top){
            st.pop();
            st.push(i.first);
            cur_top = i.second;
          }
        }
        map.erase(st.top());
        awn.push_back(st.top());
      }
      return awn;
    }
};
```

- first goes through the array of numbers and stores frequencies of numbers in a hash map
- hash map is iterated to find the number with the highest number
 - current highest number is pushed on to a stack and popped off if surpassed in frequency
- step 2 is repeated k times