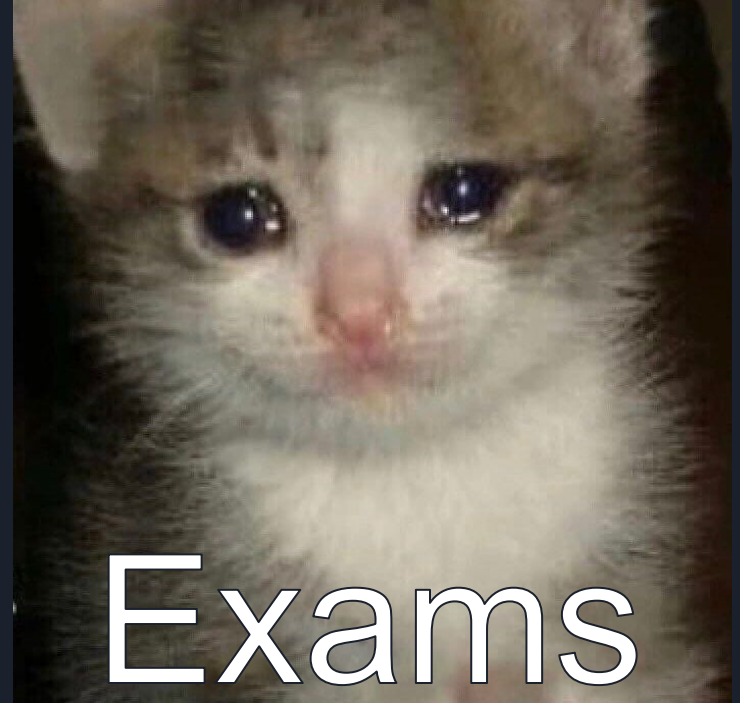# CS 314
Discussion

Problems

- Main Problem
  - Maps
  - … Maps

```java
public Map<String, int[]> getStats(String[] schools, boolean[] results) {
    HashMap<String, int[]> m = new HashMap<>();
    for (int i = 0; i < schools.length; i++) {
        String school = schools[i];
        int[] temp = m.get(school);
        if (temp == null) {
            temp = new int[2];
            m.put(school, temp);
        }
        temp[1]++;
        if (results[i]) {
            temp[0]++;
        }
    }
    return m;
}
```

```java
public String getMostSelectiveSchool(Map<String, int[]> map) {
    double minSelect = 1.1;
    int maxApplicants = 0;
    String result = "";
    for (String key : map.keySet()) {
        int[] temp = map.get(key);
        double selectivity = 1.0 * temp[0] / temp[1];
        if (selectivity < minSelect || (selectivity == minSelect
            && temp[1] > maxApplicants)) {
                result = key;
                minSelect = selectivity;
                maxApplicants = temp[0];
            }
    }
    return result;
}
```

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