CSE 332: Data Abstractions

QuickCheck: Recurrences (due Thursday, January 21)

Name:

0. Happening Happening Happening

Consider the following code:

```
1  f(n) {
2      if (n == 0) {
3          return 0;
4      }
5
6      int result = 0;
7      for (int i = 0; i < n; i++) {
8          for (int j = 0; j < i; j++) {
9              result += j;
10
11         }
12     }
13     return f(n/2) + result + f(n/2);
14 }
```

(a) Find a recurrence for the time complexity of $f(n)$.

(b) Find a Big-Oh bound for your recurrence.