0. Happening Happening Happening

Consider the following code:

```c
f(n) {
  if (n <= 1) {
    return 0;
  }
  
  int result = 0;
  for (int i = 0; i < n; i++) {
    for (int j = 0; j < i; j++) {
      result += j;
    }
  }
  return f(n/2) + result + f(n/2);
}
```

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

(b) Find a Big-$\mathcal{O}$ bound for your recurrence.