

In class exercises: Big-O and Big- Ω

1. . Consider the following code fragment:

```
for  $i \leftarrow 1$  to  $n$ 
  for  $j \leftarrow 1$  to  $2i$ 
    print "foo"
```

Let $T(n)$ be the number of times “foo” is printed. Express $T(n)$ as a summation (or really two nested summations), and simplify to give a big-O bound in terms of n for the number of times foo is printed.