**Algorithm** THE ANT AND THE FLY

**Input:** none

```
1   nest distance ← 3
2   total steps ← 300
3   step length ← nest distance ÷ total steps
4   create the ant at position (0,0)
5   create the fly and move it to position (0,1)
6   repeat total steps times:
7       turn the fly toward the ant
8       move the fly forward step length
9       move the ant forward step length
```

**Output:** the final distance between the ant and the fly