

**In-class Practice 16: Pumping Lemma**

Let  $C$  be the language of all strings of **a**'s, **b**'s, **c**'s and **d**'s, such that the number of **a**'s equals the number of **b**'s, and the number of **c**'s equals the number of **d**'s.

Prove that  $C$  is not context-free.