## **Proof strategy**

• We will prove the following:

$$1 \Longrightarrow 2$$
,  $2 \Longrightarrow 1$ ,  $1 \Longrightarrow 3$ ,  $3 \Longrightarrow 1$ .

• It would also be ok to prove

$$1 \implies 2$$
,  $2 \implies 3$ ,  $3 \implies 1$ 

which is what the book does. This would be more efficient but I think it's not as clear.