## **Access Control and Privacy Policies (10)**

Email: christian.urban at kcl.ac.uk

Office: S1.27 (1st floor Strand Building)
Slides: KEATS (also homework is there)

## **Revision: Proofs**



axiom

goal

start

## **Proof Example Proof**

?

 $\overline{P}$  says  $\overline{F_1} \wedge \overline{Q}$  says  $\overline{F_2} \vdash \overline{Q}$  says  $\overline{F_2} \wedge \overline{P}$  says  $\overline{F_1}$ 

## **Proof Example Proof**

We have (by axiom)

(1) 
$$P$$
 says  $F_1 \wedge Q$  says  $F_2 \vdash P$  says  $F_1 \wedge Q$  says  $F_2$ 

From (1) we get

- (2) P says  $F_1 \wedge Q$  says  $F_2 \vdash P$  says  $F_1$
- (3) P says  $F_1 \wedge Q$  says  $F_2 \vdash Q$  says  $F_2$

From (3) and (2) we get

$$P$$
 says  $F_1 \wedge Q$  says  $F_2 dash Q$  says  $F_2 \wedge P$  says  $F_1$ 

Done.