

Alice

$$4^7 \text{ mod } 17$$

$$\underline{16384 \text{ mod } 17 = 13}$$

Bob

$$4^8 \text{ mod } 17$$

$$\underline{65536 \text{ mod } 17 = 1}$$

Carol

$$4^6 \text{ mod } 17$$

$$\underline{4096 \text{ mod } 17 = 16}$$

Alice

$$1^7 \text{ mod } 17$$

$$1 \text{ mod } 17 = \underline{1} \quad k=1$$

Carol

$$1^6 \text{ mod } 17 = \underline{1} \quad k=1$$

$$13^6 \text{ mod } 17$$

$$\underline{4826809 \text{ mod } 17 = 16} \quad k=2$$

Bob

$$13^8 \text{ mod } 17$$

$$\underline{815730721 \text{ mod } 17 = 1} \quad k=2$$