

$$ax \equiv_m b \Leftrightarrow \exists v \in \mathbb{Z} : av \equiv_m b \Leftrightarrow$$

AMMETTE SOLUZIONE

$$\Leftrightarrow \exists u, v \in \mathbb{Z} (au + mv = b) \Leftrightarrow d \mid b : d \in \text{MCD}(a, m)$$

$$ax \equiv_b 6 \text{ AMMETTE SOLUZIONE} \Leftrightarrow \exists d \in \text{MCD}(a, b) : d \mid 6$$

$$9x \equiv_{10} 6 \quad \text{MCD}(9, 10) = 1 \quad 1 \mid 6 \quad \text{SI} \quad \checkmark$$

$$9x \equiv_{15} 6 \quad \text{MCD}(9, 15) = 3 \quad 3 \mid 6 \quad \text{SI} \quad \checkmark$$

$$9x \equiv_{20} 6 \quad \text{MCD}(9, 20) = 1 \quad 1 \mid 6 \quad \text{SI} \quad \checkmark$$

$$9x \equiv_{28} 6 \quad \text{MCD}(9, 28) = 1 \quad 1 \mid 6 \quad \text{SI} \quad \checkmark$$

$$9x \equiv_{10!} 6 \quad \text{MCD}(9, 10!) = 9 \quad 9 \nmid 6 \quad \text{NO} \quad \times$$

$$10x \equiv_{15} 6 \quad \text{MCD}(10, 15) = 5 \quad 5 \nmid 6 \quad \text{NO} \quad \times$$

$$10x \equiv_{20} 6 \quad \text{MCD}(10, 20) = 10 \quad 10 \nmid 6 \quad \text{NO} \quad \times$$

$$10x \equiv_{28} 6 \quad \text{MCD}(10, 28) = 2 \quad 2 \mid 6 \quad \text{SI} \quad \checkmark$$

$$15x \equiv_{10!} 6 \quad \text{MCD}(15, 10!) = 15 \quad 15 \nmid 6 \quad \text{NO} \quad \times$$

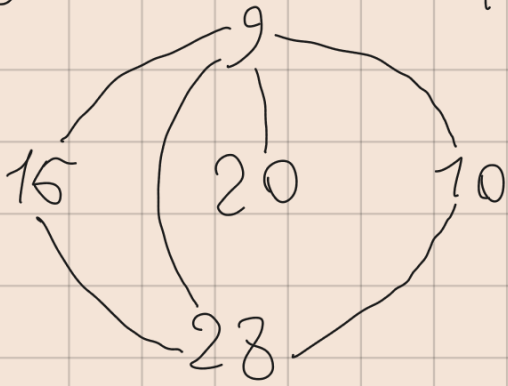
$$20x \equiv_{28} 6 \quad \text{MCD}(20, 28) = 4 \quad 4 \nmid 6 \quad \text{NO} \quad \times$$

$$20x \equiv_{10!} 6 \quad \text{MCD}(20, 10!) = 20 \quad 20 \nmid 6 \quad \text{NO} \quad \times$$

$$28x \equiv_{10!} 6 \quad \text{MCD}(28, 10!) = 28 \quad 28 \nmid 6 \quad \text{NO} \quad \times$$

i)

10!



ii) IL GRAFO NON È CONNESSO PERCHÉ 10!

NON APPARTIENE A NESSUN LATO \Rightarrow NON È UN ALBERO

iii) PER OTTENERE UNA FORESTA BISOGNA

ELIMINARE I LATI $\{9, 28\}, \{10, 28\}$