

NUD(12, 18)

12 | 2
6 | 2
3 | 3
1

18 | 2
9 | 3
3 | 3
1

$$NUD = 2 \cdot 3 = 6$$

Диа різновіс!!!

Alg obpovorenia

- 1) Spr. czy $a > b$, $b > 0, \dots$
- 2) Od większego odejm. mniejsze
- 3) Jeżeli 1-2 dopóki $a \neq b$
- 4) Wyn. większy a i b mamy $NUD = a = b$

| a | b | wyn |
|----|----|-----------------------|
| 18 | 12 | $wyn = 18 - 12 = 6$ |
| 6 | 12 | $wyn = 12 - 6 = 6$ |
| 6 | 6 | $\Rightarrow NUD = 6$ |

NUD (100; 15)

| a | b | wyn |
|-----|----|-----------------------|
| 100 | 15 | $wyn = 100 - 15 = 85$ |
| 85 | 15 | $wyn = 85 - 15 = 70$ |
| 70 | 15 | $wyn = 70 - 15 = 55$ |
| 55 | 15 | $wyn = 55 - 15 = 40$ |
| 40 | 15 | $wyn = 40 - 15 = 25$ |
| 25 | 15 | $wyn = 25 - 15 = 10$ |
| 10 | 15 | $wyn = 15 - 10 = 5$ |
| 10 | 5 | $wyn = 10 - 5 = 5$ |
| 5 | 5 | $NUD = 5$ |

NUD (72; 24)

| a | b | wyn |
|----|----|------------------------|
| 72 | 24 | $wyn = 72 - 24 = 48$ |
| 48 | 24 | $wyn = 48 - 24 = 24$ |
| 24 | 24 | $\Rightarrow NUD = 24$ |

alg

while $a \neq b$:

if $a > b$: $a = a - b$
if $b > 0$: $b = b - a$

return a