

$$\text{NWD}(24, 18) = 6$$

24	2
12	2
6	2
3	3
1	

18	2
9	3
3	3
1	

$$2 \cdot 3 = 6$$

$O(n)$

Зłożoność: $O(n)$

NWD_odejmowanie:

$$\text{NWD}(24, 18) = 6$$

a	b	wyn
24	18	wyn = 24 - 18 = 6
6	18	wyn = 18 - 6 = 12
6	12	wyn = 12 - 6 = 6
6	6	

NWD = 6

$$\text{NWD}(72, 24) = 24$$

a	b	wyn
72	24	wyn = 72 - 24 = 48
48	24	wyn = 48 - 24 = 24
24	24	

NWD

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

NWD

while $a \neq b$:

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

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

return a