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Name: \_\_\_\_\_

1. What does the following algorithm do?

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**Algorithm**

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**Input:** A natural number  $n \in \mathbb{N}$

**Output:** ?

**begin**

**while** ( $n > 1$ ) **do**  
         $n := n - 2$

**end**

**if** ( $n = 0$ ) **then**

**output** "Yes"

**else**

**output** "No"

**end**

**end**

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Name: \_\_\_\_\_

1. What does the following algorithm do?

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**Algorithm**

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**Input:** A natural number  $n \in \mathbb{N}$

**Output:** ?

**begin**

$y := 1$

$k := n$

**while** ( $k > 0$ ) **do**

$y := y \cdot k$

$k := k - 1$

**end**

**output**  $y$

**end**

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