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Example 1:

Explanation: Since $(4 \cdot 3) \bmod 11 = 1$, 4 is modulo inverse of 3. One might think, 15 also as a valid output as " $(15 \cdot 3) \bmod 11$ " is also 1, but 15 is not in ring $\{0, 1, 2, \dots, 10\}$, so not valid.

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