Pattern Matching

Find first occurrence of string y in x

x: abaabaabbaab
y: aabbaab
Pattern Matching

Find first occurrence of string y in x

x: abaabaabbaab
y: aabbaab
Pattern Matching

Find first occurrence of string \( y \) in \( x \)

\[
\begin{align*}
x & : \quad \text{abaabaabbaab} \\
y & : \quad \text{aabbaab}
\end{align*}
\]
Pattern Matching

Find first occurrence of string y in x

x: abaabaabbaab
y: aabbaaab
Pattern Matching

Find first occurrence of string y in x

x:  abaabaabbaaab
y:    aabbaaab
Pattern Matching

Find first occurrence of string $y$ in $x$

$x$: abaabaabbaab
$y$: aabbaab
Pattern Matching

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\[
x: \quad \text{abaabaabbaab} \\
y: \quad \text{aabbaab}
\]
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$x$: abaabaabbaab
$y$: aabbaab
Pattern Matching

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Pattern Matching

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$y$: aabbaab
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\[ x: \text{abaabaabbaab} \]
\[ y: \text{aabbaab} \]
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\[ \begin{align*}
x & : \quad \text{abaababaabbaab} \\
y & : \quad \text{aabbaab} \\
\end{align*} \]
Pattern Matching

Find first occurrence of string $y$ in $x$

$x$: abaabaabbaaab

$y$: aabbaaab
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Find first occurrence of string y in x

\[ x: \text{abaabaabbaab} \]

\[ y: \text{aabbaaab} \]
Pattern Matching

Find first occurrence of string y in x

\[
x: \text{ abaabaabbaab }
\]
\[
y: \text{ aabbaab }
\]
Find first occurrence of string $y$ in $x$

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\[ x: \text{abaabaabbaab} \]
\[ y: \text{aabbaaab} \]
Pattern Matching

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$x$: abaabaabbaaab
$y$: aabbaab
Pattern Matching

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$x$: abaabaabbaab
$y$: aabbaab

Output 6
Pattern Matching

Find first occurrence of string y in x