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## Naive algorithm

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x l u x t p x t d q w t d x t p x t s y x t p x t d y  
x t p x t d  
↑

If symbols match, compare the next symbols in both  $P$  and  $T$

Comparisons: **27**



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## Improved algorithm

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x l u x t p x t d q w t d x t p x t s y x t p x t d y  
x t p x t d  
↑

If symbols match, compare the next symbols in both  $P$  and  $T$

Comparisons: 27

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## Improved algorithm

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x l u x t p x t d q w t d x t p x t s y x t p x t d y  
x t p x t d  
↑

If symbols don't match, advance  $P$  to align with next found prefix (if any), and begin comparing after prefix

Comparisons: 28