Fast string concatenation

Appending to a string:

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each append to the string creates a new copy and leaves the dereferenced original on the heap

Appending to a string:



Appending to a StringBuilder:



each append to the string creates a new copy and leaves the dereferenced original on the heap

each append to the StringBuilder writes into available buffer space

Main Ealeamay

- if you're adding strings together in your code, always use the StringBuilder class
- Try to avoid adding strings using the + operator

Fast string concatenation

- If you add 4 strings or less, use regular string variables
- and the + operator for the best performance

 If you add 4 strings or more, or you don't know the number of additions in advance, use a StringBuilder
- For ten thousand additions, the StringBuilder is more than 240 limes faster than regular string addition.