Recursive Strategy: Backwards String

Problem	Recursively, print a string backwards. "Hello World" → "dlroW olleH"
What is the smallest version of this problem? (leads to base case)	Printing a string of length 1 backwards "O" → "O"
What recursion strategy should I use:	Backwards recursion
Forwards recursion	
(each recursive step gets larger;	
the base case is based on	
# of iterations)	
Backwards recursion ← classical	
(each recursive step gets smaller	
until the base case is reached)	
For recursive cases, should I:	Process as I move <u>up</u> the stack.
 Process first and recur last? 	
(process as I move <u>up</u> the	
recursive stack)	
 Recur first and process last? 	
(process as I move <u>down</u> the	
recursive stack)	
What should each recursive step do?	Print the last character
For backwards recursion solutions:	Send progressively smaller Strings on each iteration where
How should the problem be reduced on	each String is missing its <u>last</u> character.
each step?	
For forwards recursion solutions:	N/A
How should I keep track of the running answer?	

Alternate approach:

Problem	Recursively, print a string backwards.
	"Hello World" → "dlroW olleH"
What is the smallest version of this	Printing a string of length 1 backwards
problem? (leads to base case)	"O" → "O"
What recursion strategy should I use:	Backwards recursion
 Forwards recursion 	
(each recursive step gets larger;	
the base case is based on	
# of iterations)	
 Backwards recursion ← classical 	
(each recursive step gets smaller	
until the base case is reached)	
For recursive cases, should I:	Process as I move <u>down</u> the stack.
Process first and recur last?	
(process as I move <u>up</u> the	
recursive stack)	
 Recur first and process last? 	
(process as I move <u>down</u> the	
recursive stack)	
What should each recursive step do?	Print the first character
For backwards recursion solutions:	Send progressively smaller Strings on each iteration where
How should the problem be reduced on	each String is missing its <u>first</u> character.
each step?	
For forwards recursion solutions:	N/A
How should I keep track of the running	
answer?	