Get from a to b.

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+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
| a       |     | |     |     |           |           |     |     |     |     |
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|         |   | | | |   |     |           |     b|
+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
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Here is the solution
-- Don't peek unless you want to cheat!

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+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+--+
|>> >> VV|        |  |       |>> VV|>> >> >> VV|>> >> >> VV|>> VV|          |     |
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|VV << <<|        |  |  |  |^^|VV|^^|VV << <<|^^ << <<|VV|^^|VV|        |     |
+ +--+--+ +--+--+ + +  + + + + +--+--+--+--+ + + + + +--+--+  +--+--+
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+--+--+--+--+--+ +--+--+ + +--+--+--+--+ + +--+--+--+--+--+ +--+--+ +
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+--+--+ +--+--+ +--+--+ + +--+--+--+--+ + +--+--+--+--+ + + + +--+--+ +
|        |VV << <<       |^^ << <<|VV << <<|^^ << <<|        |VV|^^ <<       |
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|        |>> VV|>> VV|>> VV|>> >> ^^|VV|>> VV|>> VV|^^|  |      |>> VV|>> VV|>> VV|
+--+--+ + + + + + + + +--+--+ + + + + + + + + + +  + + + + + +
|        |  |VV|^^|VV|^^|VV|^^ << <<|VV|^^|VV|^^|VV|^^|  |  |  |VV|^^|VV|^^|VV|
+ +--+--+ + + + + +--+--+ + + + + + + + + + + + + + + + + +
|        |>> ^^|>> ^^|VV|>> >> ^^|>> ^^|>> ^^|>> ^^|     |      |>> ^^|>> ^^|VV|
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|        |      |VV|^^|VV|^^|VV|^^|          |VV << <<|^^|VV|^^|VV << <<|
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