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Chapter 2 Answers 2.1.

(a) We know that  $0 \leq n \leq N-1$   
 $y[n] = x[n] * h[n] = \sum_{k=-\infty}^{\infty} h[k]x[n-k]$

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(S2.1-1) The signals  $x[n]$  and  $y[n]$  are as shown in Figure S2.1. ,  
- t W A 2 . 4 h W 3 0 t ^  
- 1 0 i ) 1 Figure S2.1

From this figure, we can easily see that the above convolution sum reduces to  $y[n] = x[n-1] + x[n+1]$   
 $= 2x[n+1] \dots$

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"Signals and Systems" by Alan V. Oppenheim, Alan S. Willsky and S. Hamid Nawab, but also from handwritten notes of Fatih Kamisli and A. Ozgur Yilmaz. Most figures and tables in the notes are also taken from the textbook. This is the first version of the

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Alan Victor Oppenheim  
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City) is a Professor of  
Engineering at MIT's  
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Computer Science. He is

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Systems  
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investigator in MIT's  
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Processing Group. His  
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