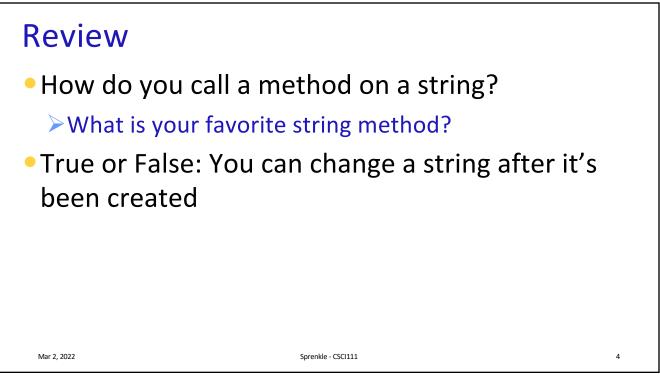
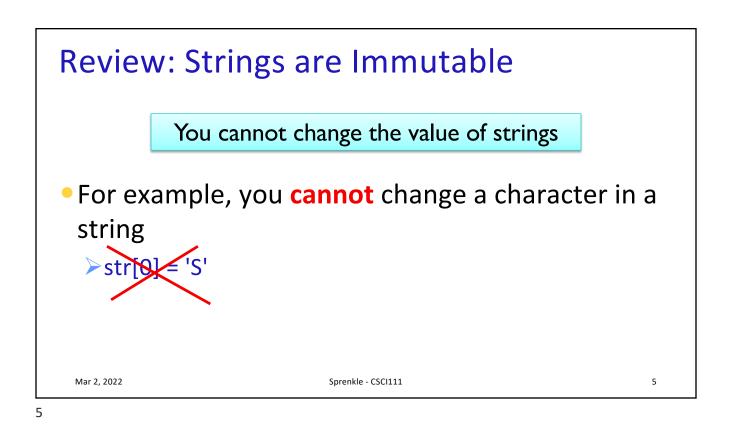


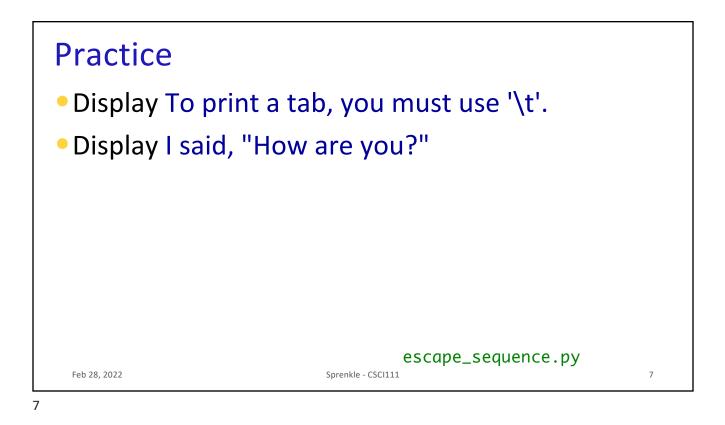


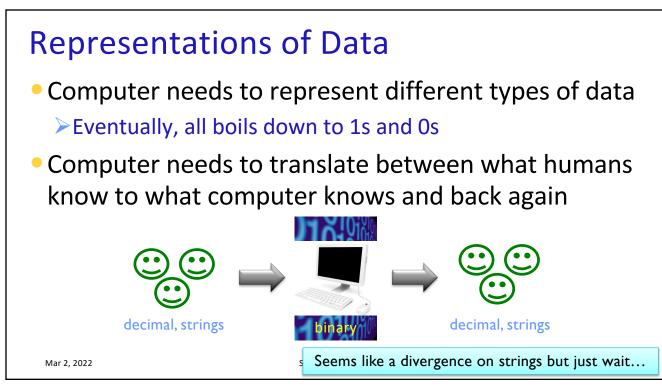
<ul> <li>Indefinite loops</li> <li>Hardest probler</li> <li>Even more tools</li> <li>A lot of String</li> </ul>	Far have I come in Computer Science? equire a different way of thinking was second rather than last that you can combine—with new tools or old tools! perations	
<ul> <li>Break down pro</li> <li>Solve what yo</li> <li>Not necessaril</li> </ul>	lot of arithmetic operations, but you're familiar with those lems can; break down what you can't linear development ething and then undo it for the next step	
<b>,</b> Mar 2, 2022	Sprenkle - CSCI111 3	
3		

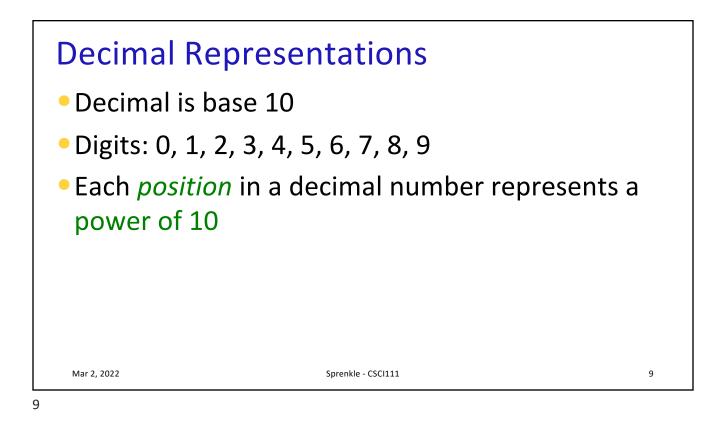


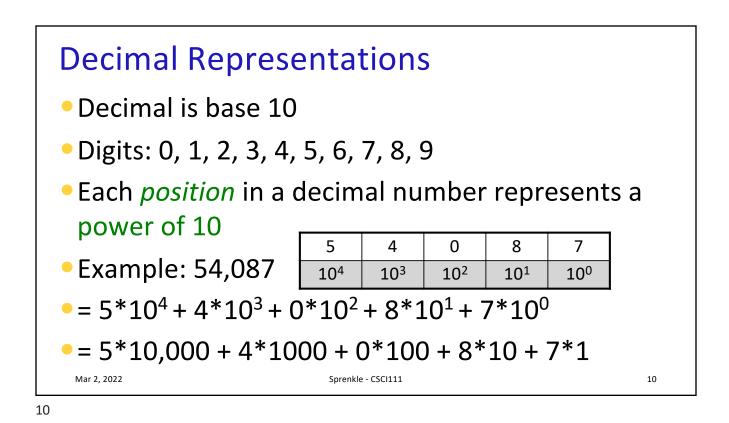


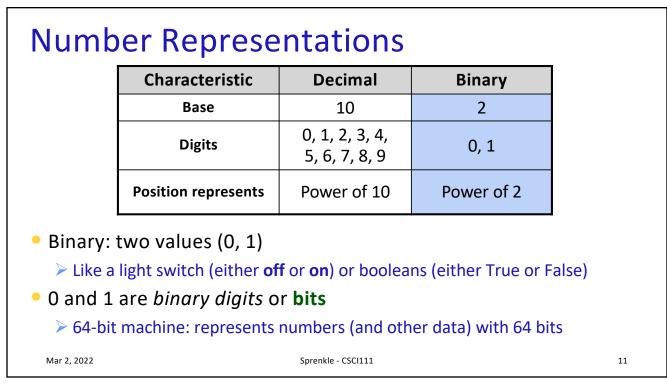
Escape Sequences					
• Escape character: 🔪					
• Escape sequences:					
$\succ$ newline character (carriage return) $\rightarrow \n$					
$\succ$ tab $\rightarrow \t$					
$\geq$ quote $\rightarrow$ \" or \'					
$\succ$ backslash $\rightarrow \setminus \setminus$	Interactive demonstration				
• Example:					
<pre>&gt;print("To print a \ you must use \"\\\\\"")</pre>					
• What does this display?					
Feb 28, 2022 Sprenkle -	csciiii demo_str.py 6				



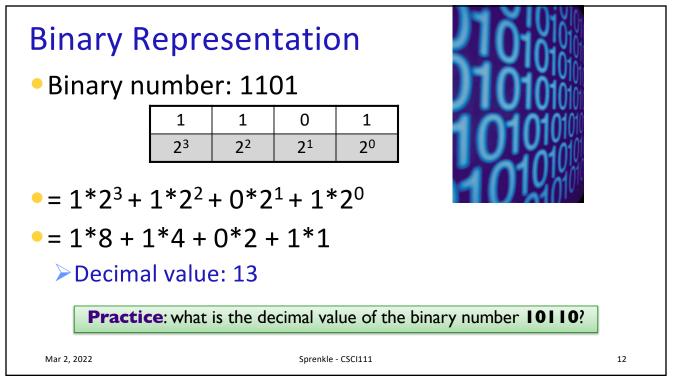


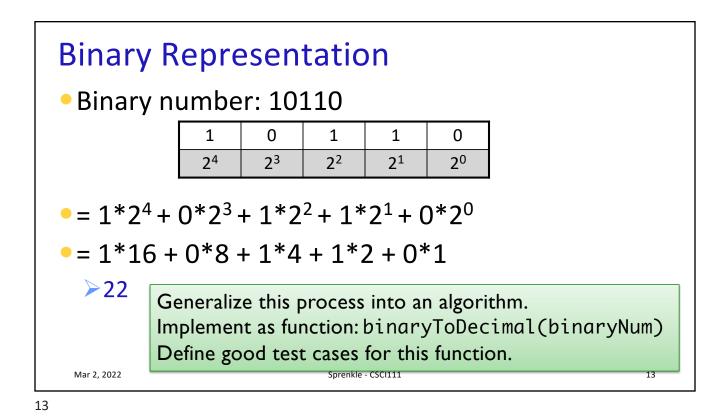


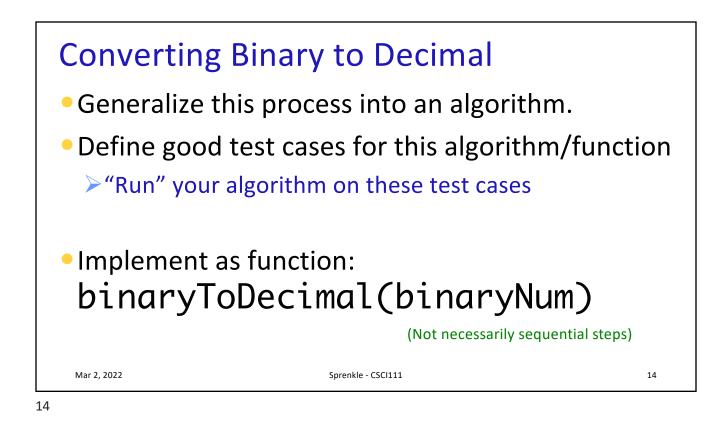












Algorithm 1: Converting Binary → Decimal Left to right traversal of binary number				
	Accumulator design pattern			
<ul> <li>Given the binary number as a string</li> <li>1. Initialize the result to zero</li> <li>2. The starting exponent will be the length of the string-1</li> <li>3. For each bit in the binary number</li> <li>&gt; Multiply the bit by the appropriate power of 2</li> <li>&gt; Add this to the result</li> <li>&gt; Reduce the exponent by 1</li> <li>4. Return the result</li> </ul>				
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