





Sequences	
general strategy: focus on techniques for counting sequences, then for each counting problem to be solved, try to map it into sequences	
recall: if P <sub>1</sub> , P <sub>2</sub> ,, P <sub>n</sub> are sets, then P <sub>1</sub> × P <sub>2</sub> × × P <sub>n</sub> is the set of all sequences whe the 1 <sup>st</sup> term is from P <sub>1</sub> , 2 <sup>nd</sup> term is from P <sub>2</sub> ,, n <sup>th</sup> term is from P <sub>n</sub>	ere
<ul> <li>e.g., C = {red, blue}, N = {1, 2, 3},</li> <li>C × N = {red-1, red-2, red-3, blue-1, blue-2, blue-3}</li> </ul>	
<b>Product Rule:</b> if $P_1, P_2,, P_n$ are sets, then	
$ P_1 \times P_2 \times \times P_n  =  P_1  *  P_2  * *  P_n $	
	4































