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Problem #1

A) 
$$\{1\}, \{2\}, \{3\}, \{4, 2\}, \{4, 3\}, \{2, 3\}, \emptyset, \{4, 2, 3\}$$
 $A_{4} = \{4, 2\}$ 
 $A_{2} = \{4\}$ 
 $A_{3} = \emptyset$ 
 $A_{4} = \{2\}$ 
 $A_{5} = \{2, 3\}$ 
 $A_{6} = \{3\}$ 
 $A_{7} = \{4, 3\}$