

# CS23 Assignment Three

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**1** Is  $(1, 2, 3, 4) = (1, 2, 4, 3)$ ?

**No.** *Unlike sets, the order of elements in a tuple matters.*

**2** Which of the following are equivalent:

$\{a, b, c\}$ ,  $\{\{a, b\}, c\}$ ,  $(a, b, c)$ ,  $(a, (b, c))$ ,  $(b, c, a)$ ,  
 $\{\{a, b, c\}\}$ ,  $\{b, c, a\}$ ,  $\{\}$ ,  $\{\{\}\}$

$\{a, b, c\}$  is equivalent to  $\{b, c, a\}$ . All other tuples and sets are inequivalent due to differences in structure or order of elements.