Preliminary problems. These problems should be completed before discussion on Thursday.

(P1) Complete the list of all 15 set partitions of the set $[4]$ below.

$\{12, 34\}$ $\qquad\qquad$ $\{1, 234\}$

$\{13, 24\}$

(P2) Find each of the following values.

$S(4, 1) =$ _____ $\qquad\qquad$ $S(4, 3) =$ _____

$S(4, 2) =$ _____ $\qquad\qquad$ $S(4, 4) =$ _____