

$$S_{n,1} = (1, 2) \text{ , } S_{n,2} = 1, 2 \text{ , } S_{n,3} = (1, 3) \text{ , } S_{n,4} = 1, 3 \text{ ,}$$

$$S_{n,5} = (1, 4) \text{ , } S_{n,6} = 1, 4 \text{ , } S_{n,7} = (1, 5) \text{ , and } S_{n,8} = 1, 5 \text{ .}$$