



graph G

$$S = \{1,2,3,4,5,6\}, K = 2$$

$$S_1 = \{1,2\}$$

$$S_2 = \{1,4\}$$

$$S_3 = \{2,3\}$$

$$S_4 = \{2,4\}$$

$$S_5 = \{3,4\}$$

$$S_6 = \{4,5\}$$

$$S_7 = \{4,6\}$$

$$S' = \{2,4\}$$