

$$3. m=1, k=2, \beta = \min(k+1-s, 2(k+1-m))$$

$$L_2: \beta = \min(3, 4) = 3$$

$$H_1: \beta = \min(2, 4) = 2$$

$$4. m=2, k=3,$$

$$L_2: \beta = \min(4, 4) = 4$$

$$H_1: \beta = \min(3, 4) = 3$$

$$H_2: \beta = \min(2, 4) = 2$$