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