STATS 528: HW6

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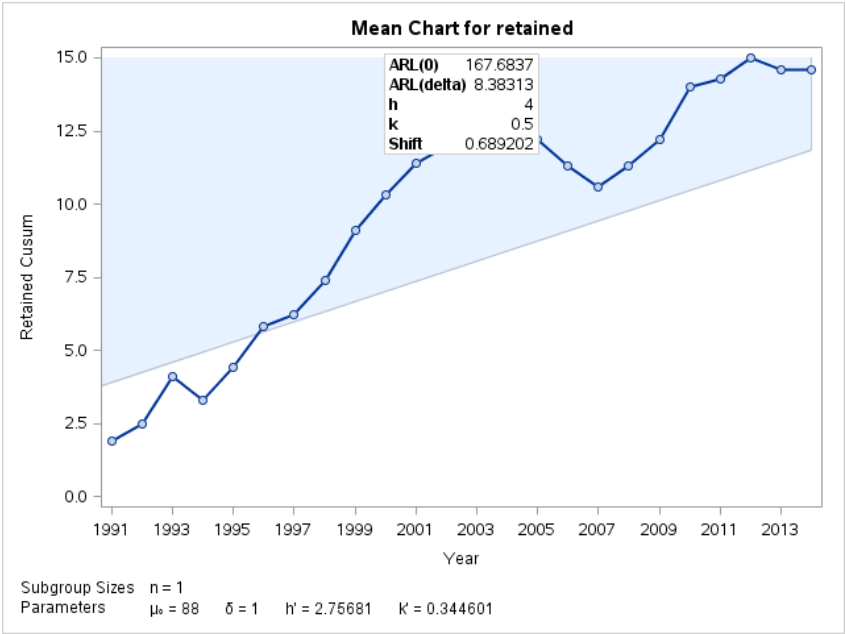
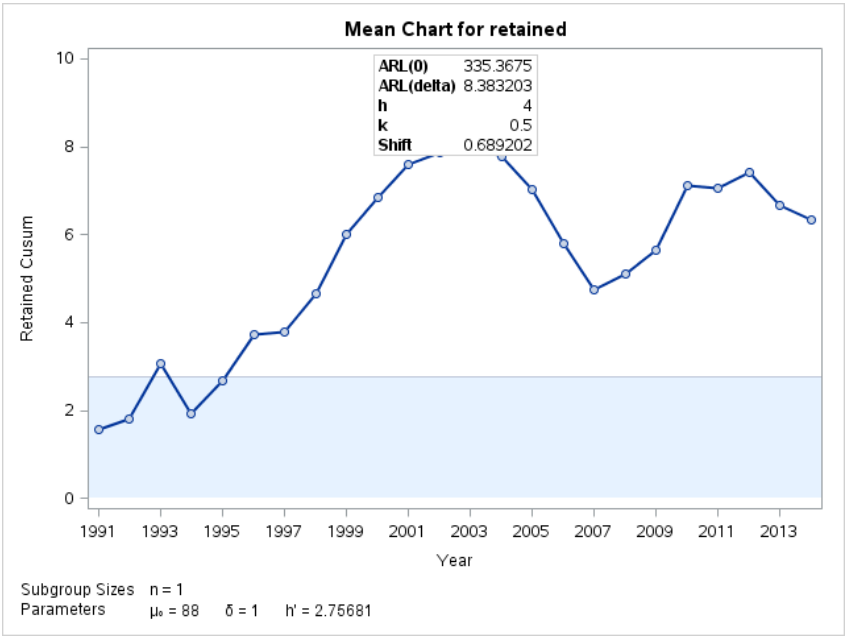
1. Enrollment Problem

   (a) We have that $\hat{\sigma} = MSSD = 0.689$.

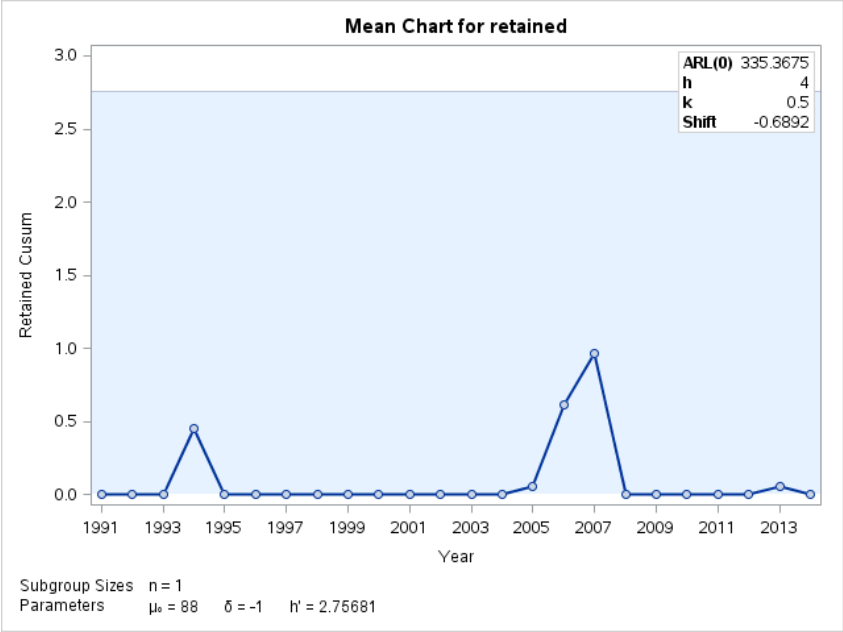
   (b) Two-sided cusum plot:



   Upper one-sided cusum plot:



   Lower one-sided cusum plot:



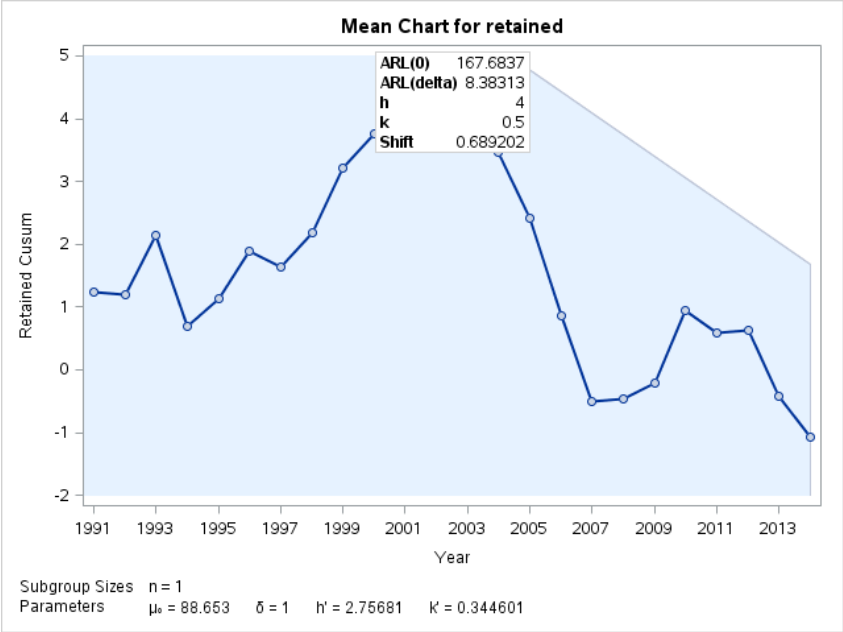
(c) The year where out-of-control signals occur happen at... They happen on the lower/upper side.

(d) The magnitude of the first significant shift it... which happened in the year...

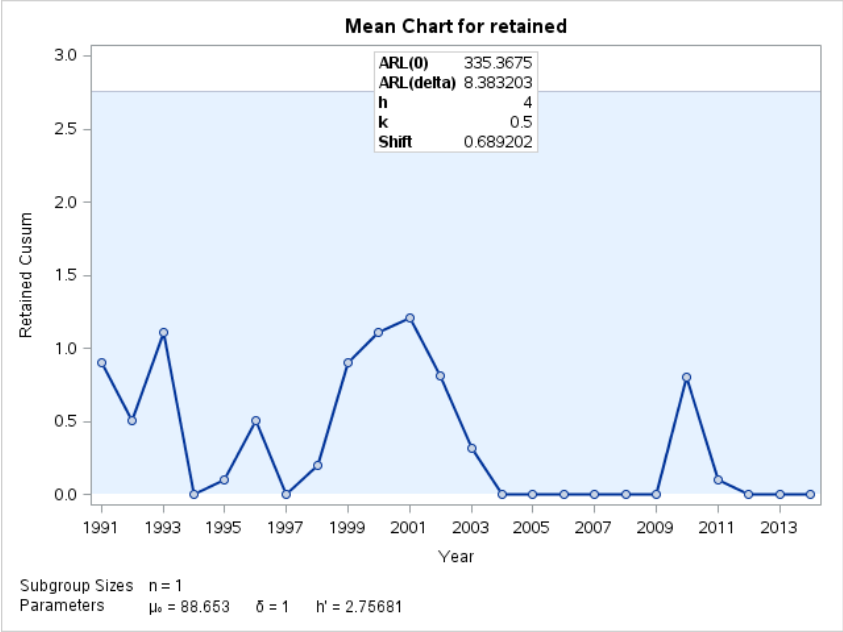
2. Enrollment Problem take 2

(a) We have that $\hat{\sigma} = MSSD = 0.689$ (no change).

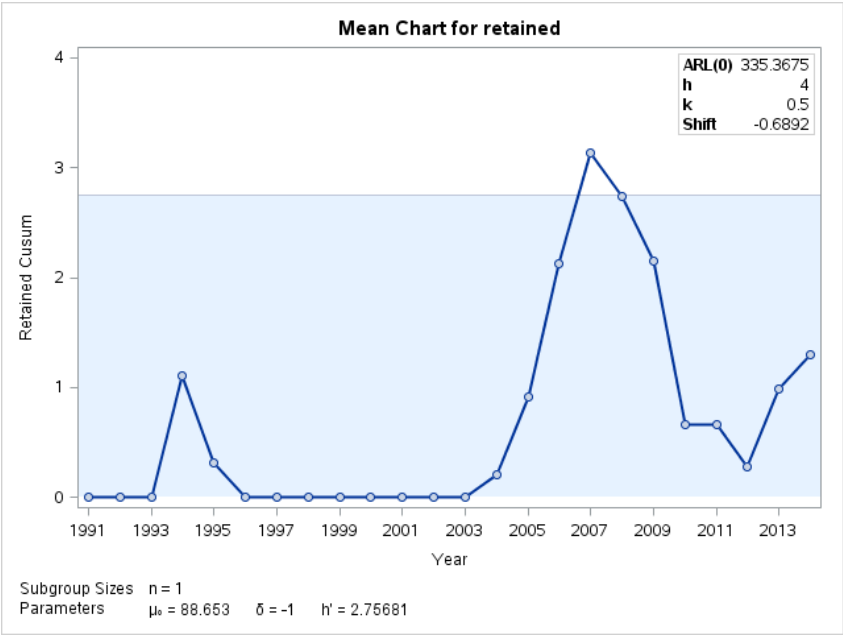
(b) Two-sided cusum plot:



Upper one-sided cusum plot:



Lower one-sided cusum plot:



(c) The year where out-of-control signals occur happen at... They happen on the lower/upper side.

(d) The magnitude of the first significant shift it... which happened in the year...

3. ARL_0 and ARL_1 and other stuff

4. h and k values for cusum

Ex 9.9 (a)

(b)

(c)

Ex 9.14