```
(ON SORTED LIST)
                                     3 JULY 2018
      ( w/o mamas
                                        START: 18:49
                                         ENO: 19:33
(DEFINE (BINARY ITEM LIST) ; RETURNS INDEX OF ITEM IN LIST
   ( DEFINE ( NTHIN LIST) | SETURNS ELEMENT OF LIST AT INDEX IN
      (IF (=N Ø) CAR LIST) (NTH (-NI) (COR LIST)))
   ( DEFINE (BEFORE N LIST) [ RETURNS SHRLIST BEFORE INDEX N
      (IF (= N 0) '() (CONS (CAR LIST) (BEFORE (-NI) (COR LISTS))))
   ( DEFINE (AFTER N LIST) T: RETURNS CUBLIST AFTER INDEX, N
      (IF (= N Ø) (COR LIST) (AFTER (-NI) (COR LIST)))
   ( DEFINE ( SEARCH ITEM LIST ADD ) TO ADD IS OFFSET FROM START OF
      (LET ((MID (FLOOR (/ (LENGTH LIST) 2)))); DRIGINAL LIST
         (COND ((NULL? LIST) FALSE)
               ( (= ITEM (NTH MID LIST))
                (+ ADD MID))
               ((< ITEM (NTH MID LIST))
                ( SEARCH ITEM (BEFORE MIN LIST) ADD))
               (() ITEM (NTH MID LIST))
                (SFARCH ITEM (AFTER MID LIST) (+ ADD MID )))))))
    (SEARCH ITEM LIST Ø)
           5 > 870 mis = 3 . 15 0) light = 3. 1
             ( ) HARCH 5 (4 56) (+ 100 mm) Le
                   MID: INDEX 1: 5 4 5
                        (+ ADD OUD)
```

BINARY STARCH IN SCHEME

by MARCEL GOH.

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