```
;; School is (make-school String Natural)
       ;; ListOfSchool is one of:
           - empty
           (cons School ListOfSchool)
       (define (fn-for-school s)
         (... (school-name s)
              (school-tuition s)))
natural
       (define (fn-for-los los)
helper
         (cond [(empty? los) (...)]
                                                        natural
               [else
                                                       recursion
                (... (fn-for-school (first los))
                     (fn-for-los (rest los)))]))
```

```
;; Element is (make-elt String Integer ListOfElement)
       interp. An element in the file system, with name, and EITHER data or subs.
               If data is 0, then subs is considered to be list of sub elements.
               If data is not 0, then subs is ignored.
 MR ;;
      ; ListOfElement is one of:
        - empty
        - (cons Element ListOfElement)
    ;; interp. A list of file system Elements
     (define (fn-for-element e)
       (.... elt-name e)
                            ;String
            (elt-data e)
                            ;Integer
            (fn-for-loe (elt-subs e))))
NMR
             NMR.
     (define (fn-for-low loe)
       (cond [(empty? loe) (...)]
                                          NR
             [else
                                                       (NMR= natural mutual recursion)
              (fn-for-element (first loe))
                   (fn-for-loe (rest loe)))]))
```

```
(define-struct person (name gender children))
;; Person is (make-person String Gender ListOfPerson)
interp. a person with first name, gender and a list of their children

MR
ListOfPerson is one of:
    SR

;; - empty
;; (cons Person ListOfPerson)
;; interp. a list of persons

;; Gender is one of"
;; - "M"
;; - "F"
;; interp. "M" means male, "F" means female
```

