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%.
This is the file CAS.LSP; it contains the routines which test whether
or not to switch the current node; swe are not happy with the way this is
handled here, it's too syntactic and ad hoc to fit well with our analysis
philosophy.  This solution may be somewhat better than the original, which
came from  Anatole Gershman's GGP program.
-- rewritten to lisp from MLISP by M. Burstein 11/7/79
- transmuted by M. G. Johnson 12/1/79
%.


"Begin-noun-phrase assumes that the NOUN-GROUP-FLAG was NOT set.
(de begin-noun-phrase ()
 (let (np-req (find-pos-req !next-lex '(adj art name noun num poss title)))
  (cond (np-req (put-first np-req (get !next-lex 'pool:))))))

"Find-pos-req looks for a request which has a pos entry which is in the list
". Poslist.  This is an example of a search through a list of requests; there
". will be more of these.
(de find-pos-req (lex poslist)
 (car (some '(lambda (x) (memq (get-pos x) poslist))
            (get (get lex 'pool:) 'specs:))))


"Get-pos gets the part-of-speech entry out of a request
(de get-pos (req)
 (let (pos-pos (some '(lambda (x) (eq (car x) 'pos)) req))
  (cond (pos-pos (cadar pos-pos)))))


"This function assumes that the NOUN-GROUP-FLAG is set.
":N-P-RECORD is a global holds NP state info.
(de END-NOUN-PHRASE ()
  (PROG (ATTS)
". BEGIN-NOUN-PHRASE extracts the relevant attributes of the current word.
        (SETQ ATTS (BEGIN-NOUN-PHRASE))
        (COND ((NULL ATTS) (GO END-N-P))
              ((MEMBER @ART ATTS)
               (COND (:N-P-RECORD (GO END-N-P)) (T (GO NOT-END))))
              ((INTERSECTION ATTS @(ADJ NUM))
               (COND ((INTERSECTION :N-P-RECORD @(NOUN TITLE NAME))
                      (GO END-N-P))
                     (T (GO NOT-END))))
              ((INTERSECTION ATTS @(TITLE NOUN))
               (COND ((MEMBER @NAME :N-P-RECORD) (GO END-N-P))
                     (T (GO NOT-END))))
              ((MEMBER @NAME ATTS)
               (COND ((MEMBER @NOUN :N-P-RECORD) (GO END-N-P))
                     (T (GO NOT-END))))
". Not sure if this is correct default.
              (T (GO END-N-P)))
  NOT-END
".    Update :N-P-RECORD.
        (SETQ :N-P-RECORD (UNION ATTS :N-P-RECORD))
        (RETURN NIL)
  END-N-P
        (SETQ :N-P-RECORD NIL)
        (RETURN T)))
```