

# CAD 命令解釋

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## nlbre1

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(defun c:nlbre1()

  (setq
    po (gp)
    po2 (gp)
    dis (distance po po2)
    alp (/ dis 4.0)

    p1 (m_poAdd po (list 0 (- (* alp 1)) 0))
    p2 (m_poAdd po (list 0 (- (* alp 3)) 0))
    p3 (m_poAdd po (list 0 (- (* alp 4)) 0))

    buf (list
      '(0 . "ELLIPSE")
      '(100 . "AcDbEntity")
      '(8 . "p")
      '(100 . "AcDbEllipse")
      ;; '(10 -8.83087e+006 7.07261e+007 0.0)
      (append '(10) p1)
      (list 11 0.0 alp 0.0)
      '(210 0.0 0.0 1.0)
      '(40 . 0.24)
      '(41 . 0.0)
      '(42 . 3.14159)
    )
    ss (ssadd)

  )
  (entmake buf)
  (ssadd (entlast) ss )

  (setq
    newp '(210 0.0 0.0 -1.0)
    oldp (assoc 210 buf)
    buf (subst newp oldp buf)
  )
  (entmake buf)
  (ssadd (entlast) ss )

  (setq
    newp (append '(10) p2)
    oldp (assoc 10 buf)
    buf (subst newp oldp buf)
  )
  (entmake buf)
  (ssadd (entlast) ss )

  (vl-cmdf "rotate" ss "" po "r" po p3 po2 )

  )

  (defun m_poAdd( p1 p2 /) (mapcar '+ p1 p2))

```

sch

```

(defun n_sch( p / n_li n_lip n_liw n_lig n_all n_now)
  (setq n_li '(6 8 10 15 20 25 32 40 50 65 80 90 100 125 150 200 250 300)
        n_li2 '("1/8" "1/4" "3/8" "1/2" "3/4" "1" "1 1/4" "1 1/2" "2"
                 "2 1/2" "3" "3 1/2" "4" "5" "6" "8" "10" "12" )
        n_lip '(10.5 13.8 17.3 21.7 27.2 34 42.7 48.6 60.5 76.3 89.1
                 101.6 114.3 139.8 165.2 216.3 267.4 318.5)
        n_liw '(1.7 2.2 2.3 2.8 2.9 3.4 3.6 3.7 3.9 5.2 5.5 5.7 6.0 6.6 7.1 8.2 9.3 10.3)
        n_lig '(0.369 0.629 0.851 1.31 1.74 2.57 3.47 4.10 5.44 9.12 11.3
                 13.5 16 21.7 27.7 42.1 59.2 78.3)
        n_all (if (= (type 6) (type p))
                   (mapcar 'n_join5 n_li n_li2 n_lip n_liw n_lig)
                   (mapcar 'n_join5 n_li2 n_li n_lip n_liw n_lig))
        n_now (car (n_gd10ex n_all (list p)))
        p0 (gp)
  )

  (vl-cmdf "circle" p0 (/ (nth 2 n_now) 2) )
  (vl-cmdf "circle" p0 (- (/ (nth 2 n_now) 2) (nth 3 n_now) ) )

  n_now
)

(defun n_gd10ex( k p )

  (setq elist (vl-remove-if-not
                '(lambda (pair)
                   (member (car pair)
                           ;; (list 10 42)
                           p)
                  )
                )
        k
  )

  ;; (mapcar 'n_gdd elist)
  elist
)

```