Entrée

$N = D5^{e} + 1$ flottants .X

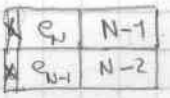
Calcule la same → FP0

conserve A0/A3
EQ ok
NE er

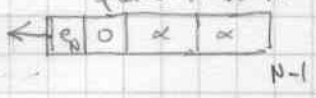
```
RCTRI:MOVE.L  A0,-(SP)
      MOVE    D5,D0
      MOVE.L  A6,-(SP)      (MOVEQ #12,D3
      MOVE.L  A6,A1      ← MOVE.L A6,A0
\10:  SUB     D3,A1
```

crée la table des exposants/n°s

TE →



flottant .X n°N



flottant .X n°1


```
      MOVE    (A1),(A6)+
      MOVE    D0,(A6)+
      DBRA    D0,\10
      BSR     VERA6
```

tri la table TE à e_i croissants
Méthode : Radix exchange sort (Knuth III 125)

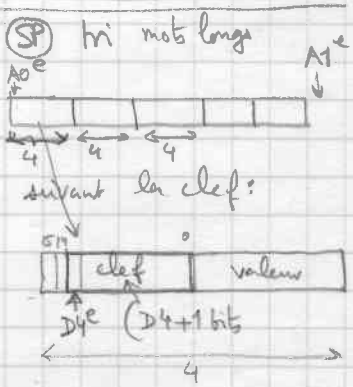
A0 ≡ l
A1 ≡ r+1 (pointe fin de r)
D4 ≡ b (bit b va de 14 à 0)

```
R1 initialise : MOVE.L  A6,A1
                MOVEQ   #14,D4
SP  RESORT:     MOVEQ   #-1,D0
                MOVE.L  D0,-(SP)    arrêt de pile
R2  \12:        LEA     -4(A1),A4
                CMP.L   A0,A4
                BLE     \20         → l=r
                MOVE.L  A0,A2
                MOVE.L  A1,A4
R3  \13:        MOVE    (A2),D0
                BTST    D4,D0
                BNE     \16
R4  \14:        ADDQ    #4,A2
                CMP.L   A2,A4
                BGT     \13
                BRA     \18
```

A2 ≡ i
A4 pointe j+1

entrée: A0/A1/D4

SP tri mots longs



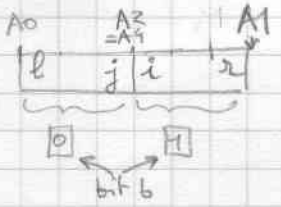
détruit A0-A2/A4
D0/D4

(R5) \15 : MOVE (A4), D0
BTST D4, D0
BEQ \17

(R6) \16 : SUBQ #4, A4
CMP.L A2, A4
BGT \15
BRA \18

(R7) \17 : MOVE.L (A2), D0
MOVE.L (A4), (A2)
MOVE.L D0, (A4)
BRA \14

(R8) \18 : SUBQ #1, D4 $b = b - 1$
BMI \20 ⊗
CMP.L A0, A2
BLE \12 → $j < l$
CMP.L A4, A1
BLE \12 → $j = r$
LEA 4(A0), A4
CMP.L A2, A4 ⊗
BNE \19 $j = l$
MOVE.L A4, A0
BRA \12



(R9) \19 : MOVE D4, -(SP) } b, $r+1$ dans la pile
MOVE.L A1, -(SP)
MOVE.L A2, A1
BRA \12

(R10) \20 : MOVE.L (SP)+, D0
BMI \30 → fin
MOVE.L A1, A0 $l \leftarrow r+1$
MOVE.L D0, A1 $r \leftarrow r'$
MOVE (SP)+, D4 $b \leftarrow b'$
BRA \12

\30 : RTS

[fin de (SP) RESORT]

```
30      BSR  RESORT      ⊗

⊗  \30: MOVE.L (SP)+,A1          table TE
        MOVE.L (SP)+,A0          table TF

        MOVEQ #0,D0
        FMOVE.L D0,FPSR  ← FMOVECR #$F,FP0
        MOVEQ #12,D1                          boucle D5=D5°-- 0
\32:    MOVE.L (A1)+,D0          n° sur TF
        MULU  D1,D0              12.k
        FADD.X (A0,D0.L),FP0
        DBRA  D5,\32
        FMOVE.L  FPSR,D0
        AND  #$D0,D0             D2, IOP, OVFL
        RTS
```