

① si  $\left\{ \frac{a^k}{b^k} \right\} = \left\lfloor \frac{P}{Q} \right\rfloor = \left( \frac{a}{b} \right)^k$  pose  $\frac{a}{b}$  en  $\{A2\}$   $D4=0$

sinon  $\frac{a^k}{b^k} \approx \sqrt[k]{\text{INT}\left(\frac{P}{Q}\right)}$   $D4=1$

split SORT2

XRO2A: BTST #5, (A0)

BEQ XRO1 → cas entier

BSR SLNHO

MOVE.L A0, A1

ADD D0, A1

MOVE.L A1, -(SP)

BSR XRO1

MOVE.L (SP)+, A1 9 ⊗

MOVEM.L D4/A0/A2, -(SP) ⊗

BSR XRO1 ← MOVE.L A1, A0

MOVEM.L (SP)+, D0/A1 P

OR D0, D4

BNE KL36 → racine irracionale

*racine exacte*

MOVE.L A2, A1 = b

MOVE.L (SP), A0 = a

BSR XDIVS2 a/b

CLR D4

KL35: MOVE.L (SP), A0

BSR XLB76

MOVE.L (SP)+, A2 ⊗

RTS

KL36: EXG A0, A1 P Q

MOVE.L (SP)+, A6

BSR XDIV1

MOVE.L A3, -(SP)

MOVE.L A2, A0

BSR XRO1

MOVEQ #1, D4

BRA KL35

D4
P
VIP1=9

