```
        BasicUpstart2(main)
              * = $4000

        .var temp = $c000

        main:
              lda #0
              sta $df04
              sta $df05
              sta $df08
              sta $df0a
              lda #1
              sta $df07

              lda #<temp
              sta $df02
              lda #>temp
              sta $df03

              ldx #0
        loop1:
              stx $df06
              stx temp
              lda #178
              sta $df01
              lda temp
              sta temp+1,x
              inx
              bne loop1

              ldy #177
              ldx #0
              stx old
        loop2:
              stx $df06
              sty $df01
              lda temp
              cmp old
              bcc next
              sta old
              inx
              bne loop2
        next:
              stx size
              ldy #176
              ldx #255
        loop3:
              stx $df06
              lda temp+1,x
              sta temp
              sty $df01
              dex
              cpx #255
              bne loop3
              lda size

              sta $0400
              rts

        old:  .byte 0
        size: .byte 0
```