

XXXXXXXXXXXXXXXXXX

38 - 0 - 170769 - 01112562 SYSTEEMPRI

```

0
1
2
3 HSYM(179)
4 A = 4
5 S = 7
6 SE18
7 S = 23
8 SE1
9 U, A = HVERDERLEZEN, P
10 N, S = HVOORSYM
11 Y, SUBC(:MT(122))
12 U, S + 1, P
13 Y, JUMP(8)
14 HVERDERLEZEN = B
15 U, A = H BANDCORRECT, P
16 N, JUMP(133)
17 HFOUT = S
18 B + 2
19 S = 9
20 SE73
21 HBOODSCHAR
22 U, A = HTEXTGEWENST, P
23 N, JUMP(2)
24 U, A = HVERDERLEZEN, P
25 Y, SUBC(:MT(99))
26 U, S - 118, Z
27 N, JUMP(6)
28 S = MT(4)
29 GLO = S
30 S = MD(3)
31 GL1 = S
32 SE34
33 HPROGEND
34 U, S - 119, Z
35 N, JUMP(47)

36
37
38 SUBC(:MT(96))
39 HVOORSYM = S
40 S - 119, Z
41 N, JUMP(3)
42 S = HTEXTGEWENST, P
43 Y, SUBC(:MT(83))
44 JUMP(- 7)
45 S = 1
46 HREGELNR + S
47 S = 0
48 HRANGNR = S
49 HREGELLEEG = B
50 S = - HSTRINGLEZEN, P
51 Y, S = - HERRORFOUND, P
52 N, JUMP(15)
53 G = - HWIJZER, P
54 F + 2, E
55 N, JUMP(4)
56 S = :HTEXTPASS?. Z
57 SUBC(MS)
58 SE39

```

" 7.0
" HSYM - 0

reads one basic symbol of the algol-text
from papertape, magnetic tape or drum,
prints it, if listing wanted,

" S := G := SYM
" SYM ≥ 0?

assembles := into "becomes"

skips spaces and "carriage returns" and some more tasks

" PRSYM(S)
" PROGEND?

" NLCR?

" 7.0
" HSYM - 1

" S := G := SYM

" PRSYM(HVOORSYM)

" DAN MOET WIJZER = 0 ZIJN GEWEEST

```

59      F + 7799, Z          " WAS ER HET LAATST EEN NLCR IN TEXTPASS2 GESTOPT ?
60      N, S = 2
61      N, HWIJZER + S
62      N, S = - 7799
63      N, F = 2
64      N, SUBC(:MT(52))    " TEXTPASS2[WIJZER - G] := S
65      F = 1
66      S = HREGELNR
67      SUBC(:MT(49))      " TEXTPASS2[WIJZER - G] := S
68      S = HTEXTGEWENST, P
69      N, JUMP(13)
70      B + 2
71      SE76
72      + 0
73      + 4
74      SE76
75      + 0
76      + 0
77      S = :HREGELNR

78
79
80      SE78
81      S = 21
82      SE73
83      CABSEIXT
84      SUBC(:MT(44))      " RRSYM(HVOORSYM)
85      HVERDERLEZEN = - B
86      JUMP(- 75)
87      U, S = 93, Z      " SPATIE?
88      N, JUMP(3)
89      S = - HSTRINGLEZEN, P
90      Y, JUMP(- 77)
91      S = 129
92      HREGELLEEG = - B
93      G = S
94      U, S = HSTRINGLEZEN, P
95      Y, JUMP(4)
96      U, S = 123, Z
97      Y, F = 63        " REPRESENTATION FOR MIABE
98      U, S = 124, Z    " LIBRARY ?
99      Y, F = 93
100     U, S = 62, R      " GEEN LETTER OF DIGIT ?
101     Y, S = - HDRUM, P
102     Y, S = 1
103     Y, HRANGNR + S
104     S = G
105     S = 90, Z
106     Y, S = - HSTRINGLEZEN, P
107     N, JUMP(45)
108     SUBC(:MT(28))      " S := G := SYM
109     HVOORSYM = S
110     U, S = HTEXTGEWENST, P
111     Y, SUBC(:MT(17))   " RRSYM(HVOORSYM)
112     U, S = 93, Z      " SPATIE?
113     Y, JUMP(- 6)
114     U, S = 70, Z
115     Y, F = 344

```

```

" 7.0
" HSYM - 2

```

```

" 7.0

```

```

117
118 N, F = 90
119 N, HVERDERLEZEN = - B
120 JUMP(34)
121 MC = S " TEXTPASS2[WIJZER - G] := S
122 G = HWIJZER
123 S = :HTEXTPASS2, Z
124 SUBC(MS)
125 SE38
126 G = M[B - 3]
127 DO(MC[- 1])
128 B = 1
129 GOTOR(MC[- 1])
130 HVOORSYM = S " RRSYM(S)
131 B + 2 " RRSYM(HVOORSYM)
132 S = :HVOORSYM
133 SE78
134 S = 13
135 SE73
136 CRRSYM
137 G = HVOORSYM
138 JUMP(22)
139 S = 15 " SUBROUTINE S := G := SYM
140 GBILL + S, R
141 SE115
142 S = HDRUN, P
143 Y, JUMP(5)
144 U, S = HLEZENVANTAPE, R
145 Y, JUMP(28)
146 CHEEN
147 SYM
148 JUMP(11)
149 F = :HSTRINGVARIABLE
150 SUBCD(:UDNSS)
151 S = A
152 DO(MD[- 1])
153 U, S = 510, Z " EINDE STRING ?
154 JUMP(4)
155 S = 17
156 GBILL + S, R
157 SE115
158 SE71
159 Y, JUMP(9)
160 G = S
161 S = MC[- 1]
162 S '*' - HRAG
163 MC = S
164 S = :MT[0]
165 S '*' HRAG
166 M[B - 1] + S
167 S = G
168 GOTOR(MC[- 1])
169 CHEEN
170 CDUMEND
171 N, JUMP(- 11)
172 SUBC(:MT[- 52]) " TEXTPASS2[WIJZER - G] := S
173 JUMP(- 32)
174 G = JCURUNIT
175 U, S = MG[171, R " NEXTEL ?
176 Y, JUMP(3)

```

```

177      CHEEN
178      CNEXTGROUP
179      JUMP( - 36)
180      SUBC(:CFASTREAD)
181      S = G
182      U, S = 118, Z
183      N, S = 123, Z
184      N, S = 1, Z
185      N, JUMP( - 25)
186      SE33
187      CBOODSCHARD

```

```

" PROGEND ?
" OF MIARE OF LIBRARY ?

```

```

188
189
190  MIDRRINT(63)

```

prints an identifier

```

" 7.1
" MIDRRINT - 0

```

```

191      A = 2
192      S = 6
193      SE18
194      S = 8
195      SE0
196      S = 16
197      SE1
198      DOS(M2[- 11])
199      DO(FRV)
200      M2[- 11] = G
201      F = - F
202      S = :HCL, Z
203      SUBC(MS)
204      SE39
205      MA[2] = G
206      F = - 1
207      G = M2[- 11]
208      S = :HCL, Z
209      SUBC(MS)
210      SE39
211      M2[- 11] = G
212      G = - MA[2]
213      S = :HIL, Z
214      SUBC(MS)
215      SE39
216      MA[3] = - G, R
217      S = G
218      RUS(18)
219      SUBC(:MT[19])
220      RUS(12)
221      S '*' 63
222      SUBC(:MT[14])

```

```

IN ALGOLBLOCK
" TELLER, WOORD, SYMBOL,
" M3[2], M3[3], M3[4],

```

```

" CONDITIE OP N ZETTEN

```

```

223
224
225      N, RUS(6)
226      N, S '*' 63
227      N, SUBC(:MT[11])
228      N, S '*' 63
229      N, SUBC(:MT[9])
230      S = 1
231      PLUS(MA[2])
232      S = M2[- 11], Z
233      N, JUMP( - 28)
234      SE6

```

```

" 7.1
" MIDRRINT - 1

```

```

235      S = 55
236      GBILL + S, P
237      SE115
238      SE71
239      U, S = 63, Z          " SUBROUTINE
240      Y, GOTO(MC[- 1])
241      MA[4] = S
242      S + 2
243      S = :MA[4]
244      SE78
245      S = 13
246      SE73
247      CRRSYM
248      S = MC[- 1]
249      S '*' = HRAG
250      MC = S
251      S = T
252      S '*' HRAG
253      M[B - 1] + S
254      S = - MA[3]
255      GOTOR(MC[- 1])      " EINDE SUBROUTINE

```

" 7.2
" HBOODSCHAR - 0

```

256
257
258      HBODSCHAR(337)      sending out of error messages
259      A = 4
260      S = 8
261      SE18                " CREATE DISPLAY
262      S = 24              " ANON RUIMTE
263      SE1
264      S = ULPSTREAMS
265      S = MS
266      S = MS[12]
267      MC = S              " RED DE REGELPOSITIE VAN DE PRINTER
268      G = MT[127]        " INVARIANT ADRES STRING REGELNUMMER
269      SUBC(:MT[92])      " PRINTTEXT
270      S = HREGELDEL
271      SUBC(:MT[96])      " ABSEIXT
272      G = MT[124]        " INVARIANT ADRES STRING DELIMITER
273      SUBC(:MT[88])      " PRINTTEXT
274      S = HNEXTDEL
275      U, S = HPASS, Z
276      N, S = - S
277      N, JUMP(302)
278      U, S = 93, Z       " LIBRARY ?
279      Y, S = 124
280      U, S = 88, Z       " IS NEXTDEL = BECOMES?
281      Y, S = 90          " COLON
282      Y, SUBC(:MT[99])   " PPSYM
283      Y, S = 70          " EQUAL
284      U, S = 343, P      " IS NEXTDEL = .. OF ' ?
285      Y, S = 256
286      SUBC(:MT[95])      " PPSYM
287      G = MT[110]        " INV. ADR. STRING RANGNUMMER
288      SUBC(:MT[73])      " PRINTTEXT
289      S = HRANGDEL, P
290      Y, SUBC(:MT[77])   " ABSEIXT

```

" 7.2
" HBOODSCHAR - 1

```

293      S = HPOSID
294      S + 1, P          " POSID > - 1?
295      N, JUMP(13)
296      G = MT[104]      " INV. ADR. PARITIE IDENTIFIER
297      SUBC(:MT[66])   " PRINTTEXT
298      B + 2
299      S = :HPOSID
300      SE78
301      S = 13
302      SE73
303      HIDPRINT
304      G = MT[97]       " INV. ADDRESS STRING RELATIEF REGELNR
305      SUBC(:MT[58])   " PRINTTEXT
306      S = HREGELDEL
307      S = HREGPOSID
308      SUBC(:MT[61])   " ABSFIXT
309      S = HCIN
310      S + 1, P          " CIN > - 1?
311      N, JUMP(8)
312      G = MT[98]      " INV. ADR. STRING LAATSTE IDENTIFIER
313      SUBC(:MT[50])   " PRINTTEXT
314      S = :HCIN
315      B + 2
316      SE78
317      S = 13
318      SE73
319      HIDPRINT
320      S = HFOUT
321      W, S + 1, Z
322      Y, S = 20
323      W, S + 2, Z
324      Y, S = 45

325
326
327
328      N, HFOUT = S, P
329      S = - S
330      S + :MT[115]     " S + BASISADRES RIJTJE INV. ADR.
331      G = MS
332      SUBC(:MT[34])   " PRINTTEXT
333      S = HFOUT
334      S + 89, Z
335      N, JUMP(11)
336      S = 119
337      SUBC(:MT[49])   " PPSYM
338      S = MC[- 1]     " REGELPOSITIE VAN DE REGELDRIJZER
339      HTELLER = S
340      B + 2
341      S = :HTELLER
342      SE78
343      S = 13
344      SE73
345      CSRACE
346      JUMP(246)
347      S = HPASS, Z
348      Y, HTEXTGEWENST = - B
349      HERRORFOUND = B
350      JUMP(242)
351      Y, HCOMFOUND = B          " FOUT 20 NET GEGEVEN
352      N, S = 45, Z

```

```

" 7.2
" HBOODSCHAR - 2

```

```

352 N, S + 12, Z
353 N, JUMP(3)
354 HBANDCORRECT = - B
355 SE33
356 HAL40
357 S = HPASS, Z " IN PASS 1 ?
358 Y, S = MT[5]

359 " 7.2
360 " HBOODSCHAR - 3
361 N, S = MT[5]
362 GL0 = S
363 S = MD[3]
364 GL1 = S
365 SE34 " GENERAL GOTO
366 HBACKRAILS
367 HAZOEKSDOOR
368 B + 2 " SUBROUTINE PRINTTEXT
369 SE112 " FILL FORMAL STRING
370 S = 13
371 SE73
372 CPRINTTEXT
373 JUMP(21)
374 HTELLER = S " SUBROUTINE ABSFIXT(4, 0, HTELLER)
375 B + 2
376 SE76
377 0
378 4
379 SE76
380 0
381 0
382 S = :HTELLER
383 SE78
384 S = 21
385 SE73
386 CABSEFIXT
387 JUMP(7)
388 B + 2 " SUBROUTINE PRSYM
389 HTELLER = S
390 S = :HTELLER
391 SE78
392 S = 13

393 " 7.2
394 " HBOODSCHAR - 4
395 SE73
396 CRRSYM
397 S = MC[- 1]
398 S '*' - HRAG
399 G = S
400 S = :MT[0]
401 S '*' HRAG
402 S + G
403 GOTOR(S)
404 HBOODSCHAR[143] " NLCB NLCB REGELNUMMER
405 HBOODSCHAR[148] " _DELIMITER
406 HBOODSCHAR[153] " _RANGNUMMER
407 HBOODSCHAR[158] " NLCB POSITIE _ IDENTIFIER
408 HBOODSCHAR[166] " _RELATIEF _REGELNUMMER
409 HBOODSCHAR[174] " NLCB LAATSTE _IDENTIFIER

```

410 '167 167 033'
 411 '016 020 016'
 412 '025 027 036'
 413 '026 026 016'
 414 '033 776 000'
 415 '135 135 015'
 416 '016 025 022'
 417 '026 022 035'
 418 '016 033 135'
 419 '776 000 000'
 420 '135 135 135'
 421 '033 012 027'
 422 '020 027 036'
 423 '026 026 016'
 424 '033 776 000'
 425 '167 031 030'
 426 '034 022 035'

" DELIMITER

" RANGNUMMER

" NLGB POSITIE IDENTIFIER:

" 7.2
" HBOODSCHAR - 5

427
 428
 429 '022 016 135'
 430 '022 015 016'
 431 '027 035 022'
 432 '017 022 016'
 433 '033 132 135'
 434 '135 776 000'
 435 '135 135 135'
 436 '033 016 025'
 437 '012 035 022'
 438 '016 017 135'
 439 '033 016 020'
 440 '016 025 027'
 441 '036 026 026'
 442 '016 033 776'
 443 '167 025 012'
 444 '012 035 034'
 445 '035 016 135'
 446 '022 015 016'
 447 '027 035 022'
 448 '017 022 016'
 449 '033 132 135'
 450 '135 776 000'

" RELATIEF REGELNUMMER

" NLGB LAATSTE IDENTIFIER:

" 167 IS BASISADRES. GEBRUIKT IN 63.

451 HLYST[0]
 452 HLYST[17]
 453 HLYST[38]
 454 HLYST[66]
 455 HLYST[79]
 456 HLYST[100]
 457 HLYST[122]
 458 HLYST[145]
 459 HLYST[160]
 460 HLYST[184]

*list of message-strings (their invariant addresses)
 (The strings themselves have not been reproduced)*

" 7.2
" HBOODSCHAR - 6

461
 462
 463 HLYST[213]
 464 HLYST[227]
 465 HLYST[241]
 466 HLYST[275]
 467 HLYST[293]

468 HLYST[307]
469 HLYST[327]
470 HLYST[337]
471 HLYST[379]
472 HLYST[420]
473 HLYST[462] " BOODSCHAP 20; T/M 495
474 HLYSTA[0] " BEGIN BOODSCHAP 21
475 HLYST[496] " BEGIN BOODSCHAP 22; T/M 508
476 HLYSTA[26]
477 HLYSTA[37]
478 HLYSTA[56]
479 HLYSTA[87]
480 HLYSTA[104]
481 HLYSTA[118]
482 HLYSTA[132]
483 HLYSTA[143]
484 HLYSTA[163]
485 HLYSTA[182]
486 HLYSTA[199]
487 HLYSTA[215]
488 HLYSTA[232]
489 HLYSTA[255]
490 HLYSTA[275]
491 HLYSTA[294]
492 HLYSTA[314]
493 HLYSTA[332]
494 HLYSTA[352]

495 " 7.2
496 " HBOODSCHAP - 7
497 HLYSTA[374]
498 HLYSTA[394]
499 HLYSTA[411]
500 HLYSTA[433]
501 HLYSTA[450] " BOODSCHAP 46 T/M 482
502 HLYSTB[0] " BOODSCHAP 47
503 HLYSTB[35]
504 HLYSTB[79]
505 HLYSTA[483] " BOODSCHAP 50 T/M 509
506 HLYSTB[98]
507 HLYSTB[117]
508 HLYSTB[127]
509 HLYSTB[149]
510 HLYSTB[180]
511 HLYSTB[214]
512 HLYSTB[244]
513 HLYSTB[263]
514 HLYSTB[283]
515 HLYSTB[305]
516 HLYSTB[319]
517 HLYSTB[340]
518 HLYSTB[361]
519 HLYSTB[386]
520 HLYSTB[406]
521 HLYSTB[424]
522 HLYSTB[435] " BOODSCHAP 67 T/M 476
523 HLYSTC[0] " BOODSCHAP 68
524 HLYSTC[28]
525 HLYSTC[45]
526 HLYSTB[477] " T/M 509: BOODSCHAP 71

527 HLYSTC[77]
528 HLYSTC[96]

529
530
531 HLYSTC[119]
532 HLYSTC[138]

" 7.2
" HBOODSCHAP - 8

533 HLYSTC[166]
534 HLYSTC[204]
535 HLYSTC[239]
536 HLYSTC[264]
537 HLYSTC[299]
538 HLYSTC[326]
539 HLYSTC[362]

540 HLYSTC[402]
541 HLYSTC[437]
542 HLYSTC[477]

" BOODSCHAP 85; T/M 508

543 HLYSTD[0]
544 HLYSTD[21]
545 HLYSTD[54]
546 HLYSTD[76]

" BOODSCHAP 89 T/M 116

547 HLYSTE[490]
548 HLYSTD[150]
549 HLYSTD[177]

550 0
551 0
552 0
553 0
554 0
555 0
556 0

557 HLYSTE[482]
558 HLYSTE[0]
559 HLYSTE[20]
560 HLYSTE[46]
561 HLYSTE[74]
562 HLYSTE[101]

" 7.2
" HBOODSCHAP - 9

563
564
565 HLYSTE[139]
566 HLYSTE[162]
567 HLYSTE[207]
568 HLYSTE[219]

569 HLYSTE[247]
570 HLYSTE[285]
571 HLYSTE[315]
572 HLYSTE[347]
573 HLYSTE[361]
574 HLYSTE[378]

575 HLYSTE[405]
576 HLYSTE[417]
577 HLYSTE[444]
578 HLYSTE[473]
579 HLYSTE[0]

580 HLYSTE[17]
581 HLYSTE[46]
582 HLYSTE[80]
583 HLYSTE[121]
584 HLYSTE[153]

```

585 HLYSTF[179]
586 HLYSTF[197]
587 HLYSTF[229]
588 HLYSTF[259]
589 HLYSTF[284]
590 HLYSTF[310]
591 HLYSTF[340]
592 HLYSTF[355]
593 HLYSTF[384]
594 HLYSTF[413]
595 HLYSTF[441]
596 HLYSTF[460]

```

```

" 7.2
" HHOODSCHAR - 10

```

```

597
598
599 HLYSTD[117]
600 S '*' 255
601 U, S - 116, Z
602 Y, S = 65
603 U, S - 89, Z
604 Y, S = 95
605 U, S - 93, Z
606 Y, S = 96
607 JUMP(- 310)
608 S = 93
609 GBILL + S, R
610 SE115
611 S = HFOUR, R
612 N, SUBCD(:RSE71)
613 U, S - 20, Z
614 N, HCOMFOUND = - B
615 JUMP(- 250)

```

```

" 7.3
" HRUND - 0

```

```

616
617
618 HRUND(424)
619 A = 4
620 S = 8
621 SE18
622 S = 12
623 SE0
624 S = 12
625 SE1
626 SUBC(:MT[195])
627 S = - G
628 U, S + 63, R
629 N, S + 88, Z
630 N, S + 1, Z
631 N, S + 31, Z
632 N, JUMP(307)
633 F = 0
634 HASWOORD[HA5] = G
635 G = - HCN1
636 S = :HCL, Z
637 SUBC(MS)
638 SE39
639 HSUB[HA5] = G
640 HIDLENGTH[HA5] = G
641 S = HWIJZER
642 HLID[HA5] = S

```

read until next delimiter

assembles identifiers and numbers in the process.

" LOCALS HLID, HASWOORD, HIDLENGTH, HNEXTSYM, HSUB, HCIJZER, HSTATUS

" ANONIEMEN

" HNEXTSYM := G := HSYM

" NU DELIMITER

the delimiter read is delivered in the global variable "hnextdel"

```

643      S = 0
644      HSTATUS[HA5] = S
645      S = HNEXTSYM[HA5]
646      U, S = 62, P
647      Y, JUMP(100)          " NAAR GETALLEN LEZEN
648      U, S = 9, P
649      N, JUMP(98)         " NAAR GETALLEN LEZEN
650      S = 1

651
652
653      HWIJZER = S
654      S = HREGELNR
655      HREGLASTID = S
656      S = HNEXTSYM[HA5]
657      F = 3
658      HTELLER = G, Z      " A1
659      Y, JUMP(6)
660      F = 1, Z
661      Y, LUS(6)
662      Y, JUMP(3)
663      F = 1, Z
664      Y, LUS(12)
665      N, LUS(18)
666      HASWOORD[HA5] + S
667      SUBC(:MT[156])     " HNEXTSYM := G := HSYM
668      S = G
669      G = HTELLER, Z
670      Y, JUMP(10)
671      U, S = 62, P
672      N, F = 1
673      N, JUMP(- 16)
674      S = 63
675      F = 1, Z
676      Y, JUMP(3)
677      F = 1, Z
678      Y, LUS(6)
679      N, LUS(12)
680      HASWOORD[HA5] + S
681      SUBC(:MT[148])     " IL[SUB] := ASWOORD; SUB := SUB + 1
682      S = HNEXTSYM[HA5]
683      U, S = 62, P
684      N, JUMP(- 28)

685
686
687      HNIA = - B
688      S = HCNI
689      HTELLER = S
690      S = HIDLENGTH[HA5]
691      HASWOORD[HA5] = S
692      S = 1              " NEXT
693      MINS(HTELLER)
694      U, S + 1, Z
695      Y, JUMP(33)
696      G = - S
697      S = :HCL, Z
698      SUBC(MS)
699      SE39
700      S = - G

```

```

" 7.3
" HRUND - 1

```

```

" 7.3
" HRUND - 2

```

```

701      S + HASWOORD[HA5]
702      HASWOORD[HA5] = G
703      S - HSUB[HA5]
704      S + HIDLENGTH[HA5], Z
705      N, JUMR(- 14)
706      S = HASWOORD[HA5]           " A2
707      S + HSTATUS[HA5]
708      G = - S
709      S = :HIL, Z
710      SUBC(MS)
711      SE39
712      MC = G
713      S = HIDLENGTH[HA5]
714      S + HSTATUS[HA5]
715      G = - S
716      S = :HIL, Z
717      SUBC(MS)
718      SE39

719                                     " 7.3
720                                     " BRUND - 3
721      G = MC[- 1], Z
722      N, S = 0
723      N, HSTATUS[HA5] = S
724      N, JUMP(- 31)           " GOTO NEXT
725      S = 1
726      PLUS(HSTATUS[HA5])
727      S + HIDLENGTH[HA5]
728      S - HSUB[HA5], Z
729      N, JUMR(- 22)
730      JUMR(11)
731      S = HCNI
732      HTELLER = S
733      S + 1
734      HCNI = S
735      HNIA = B
736      G = - S
737      S = :HCL, Z
738      SUBC(MS)
739      SE38
740      G = HSUB[HA5]
741      DO(MC[- 1])
742      S = HTELLER
743      HCIN = S
744      S = '1704'           " IDENTIFIER
745      HTELLER = S           " BEWAREN OM TE STACKEN
746      S = - HERRORFOUND, R
747      N, JUMP(200)           " NAAR DELIMITER VERWERKEN
748      S = 1
749      RCS(2)
750      S + HCIN
751      G = - HLID[HA5]
752      SUBC(:MT[92])           " HIDLENGTH = S; TEXTPASS2[- G] := HIDLENGTH

753                                     " 7.3
754                                     " BRUND - 4
755      JUMP(194)           " NAAR DELIMITER VERWERKEN
756      S = 3           " GETALLEN LEZEN
757      HWIJZER + S
758      S = 5

```

```

759      HTELLER = S
760      S = HNEXTSYM[HA5]
761      N, JUMP(94)          " NU CIJFER GEVONDEN
762      U, S = 120, Z      " OKTALE GETALLEN LEZEN?
763      N, JUMP(109)       " DAN 10 OF .
764      S = 0
765      HASWOORD[HA5] = S
766      S = 12
767      SUBC(:MT(371))     " A3 : OPTELLEN BIJ ASWOORD EN TELLER AANPASSEN IN S STAAT WAARDE VAN NEXTSYM
768      SUBC(:MT(611))     " LEES NEXTSYM := G := HSYM
769      S = HSTATUS[HA5], Z
770      N, JUMP(22)        " EINDE OKTAAL GETAL GEVONDEN
771      S = 6
772      U, S = 7, P
773      N, JUMP(- 7)       " VOLGENDE CIJFER
774      U, S = 120, Z
775      Y, S = 1
776      Y, HSTATUS[HA5] = S
777      Y, S = 15
778      Y, JUMP(- 12)      " EINDMARKER INVULLEN
779      F = 88
780      S = HNEXTSYM[HA5]  " INSPRING PUNT 83, 84, 85, 87, 88
781      U, S = 90, Z
782      Y, JUMP(5)
783      HVOORSYM = S
784      S = 62, P
785      Y, S = - 1
786      Y, HRANGNR + S

787
788
789      HVERDERLEZEN = - B
790      HFOUT = G          " BOODSCHAP 0 EN BOODSCHAP 86
791      B + 2
792      S = 9
793      SE73
794      HBOODSCHAP
795      F = 62, P
796      N, F = 87
797      N, JUMP(- 16)      " BOODSCHAP 87
798      S = - HERRORFOUND, P
799      N, JUMP(4)
800      B + 2
801      S = 9
802      SE73
803      HCREATENUMBER
804      S = '2404'         " NUMBER
805      HTELLER = S        " BEWAREN OM TE STACKEN
806      JUMP(145)          " NAAR DELIMITER VERWERKEN
807      HCIJFER[HA5] = S   " SUBROUTINE OM BIJ ASWOORD
808      G = HTELLER, Z     " OP TE TELLEN, EVT IL INVULLEN, EN
809      Y, JUMP(12)        " TELLER AANPASSEN
810      F = 1, Z
811      Y, LUS(4)
812      Y, JUMP(9)
813      F = 1, Z
814      Y, LUS(8)
815      Y, JUMP(6)
816      F = 1, Z
817      Y, LUS(12)

```

```

" 7.3
" BRUND - 5

```

```

818 Y, JUMP(3)
819 F = 1, Z
820 Y, LUS(16)

821 " 7.3
822 " HRUND = 6
823 N, LUS(20)
824 HASWOORD[HA5] + S
825 S = HCIJFER[HA5]
826 S = 15, Z
827 N, S = HTELLER, Z
828 N, S = 1
829 Y, S = HSTATUS[HA5], P " ZIE OPDRACHT 235. ALS HTELLER = 0, DAN BESLIST HSTATUS > 0.
830 Y, SUBC(:MT[9]) " IL[SUB] := ASWOORD; SUB := SUB + 1
831 Y, S = 5
832 HTELLER = S
833 GOTOR(MC[- 1]) " EINDE
834 B + 2 " SUBROUTINE HNEXTSYM := G := HSYM.
835 S = 9
836 SE73
837 HSYM
838 HNEXTSYM[HA5] = G
839 JUMP(206) " EINDE
840 G = - HSUB[HA5] " SUBROUTINE IL[SUB] := ASWOORD; SUB := SUB + 1
841 S = :HIL, Z
842 SUBC(MS)
843 SE38
844 G = HASWOORD[HA5]
845 DO(MC[- 1])
846 S = 1
847 HSUB[HA5] + S
848 S = 0
849 HASWOORD[HA5] = S
850 GOTOR(MC[- 1]) " EINDE
851 HIDLENGTH[HA5] = S " SUBROUTINE HIDLENGTH = S;
852 S = :HTEXTPASS2, Z " TEXTPASS2[- G] := HIDLENGTH
853 SUBC(MS)
854 SE38

855 " 7.3
856 " HRUND = 7
857 G = HIDLENGTH[HA5]
858 DO(MC[- 1])
859 GOTOR(MC[- 1]) " EINDE
860 U, S = 9, P
861 Y, JUMP(17) " GEEN CIJFER not a digit
862 HCIJFER[HA5] = S
863 S = HSTATUS[HA5], Z
864 N, JUMP(8)
865 S = - HNEXTSYM[HA5]
866 S + 8, P " - HNEXTSYM + 8 ≤ 0? DAN N
867 Y, S = HTELLER
868 Y, S = 5, Z
869 N, S = 1
870 HSTATUS[HA5] = S
871 S = HCIJFER[HA5]
872 JUMP(62) " NAAR ASWOORD :=
873 U, S = 2, Z " STATUS = 2?
874 Y, S = 3
875 Y, JUMP(- 6)

```

```

876 U, S = 3, P " STATUS > 3?
877 Y, S = 6
878 JUMP(- 9)
879 U, S = 88, Z " DECIMAL POINT?
880 N, JUMP(13)
881 S = 10
882 HCIJFER[HA5] = S
883 S = HSTATUS[HA5]
884 U, S = 1, P " STATUS ≤ 1? DAN N
885 N, S = 2
886 N, JUMP(- 17)
887 U, S = 3, Z
888 Y, F = 0 " NAAR BOODSCHAP(0) UITSTUREN

889 " 7.3
890 " HRUND - 8
891 Y, JUMP(66)
892 S = 2, Z
893 Y, F = 83
894 N, F = 84
895 JUMP(- 108) " NAAR BOODSCHAP UITSTUREN
896 U, S = 89, Z " DROPPED TEN?
897 N, JUMP(9)
898 S = 11
899 HCIJFER[HA5] = S
900 S = HSTATUS[HA5]
901 U, S = 2, Z
902 Y, JUMP(- 10) " BOODSCHAP83
903 S = 3, P " STAKEN > 3?
904 Y, JUMP(- 15) " BOODSCHAP 0
905 S = 4
906 JUMP(- 35) " STATUS TOEKENNEN EN NAAR ASWOORD :=
907 U, S = 64, Z " +?
908 Y, JUMP(2)
909 U, S = 65, Z " -?
910 N, JUMP(12) " DAN IS HET WAT ANDERS, MAAR MAG DAT?
911 S = 51
912 HCIJFER[HA5] = S
913 S = HSTATUS[HA5]
914 U, S = 2, Z
915 Y, JUMP(- 23) " BOODSCHAP 83
916 U, S = 4, Z
917 Y, S = 5
918 Y, JUMP(- 47) " STATUS TOEKENNEN EN NAAR ASWOORD :=
919 S = 5, Z
920 Y, F = 85
921 Y, JUMP(- 134) " NAAR BOODSCHAP UITSTUREN
922 JUMP(12) " NAAR CIJFER := 15

923 " 7.3
924 " HRUND - 9
925 S = HSTATUS[HA5]
926 U, S = 2, Z
927 Y, JUMP(- 33) " BOODSCHAP 83
928 U, S = 4, Z
929 Y, JUMP(1)
930 S = 5, Z
931 Y, F = 85
932 Y, JUMP(- 143) " NAAR BOODSCHAP UITSTUREN
933 S = HNEXTSYM[HA5]

```

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```

934      S = 62, P
935 N,    F = 87
936 N,    JUMP(- 147)
937      S = 15
938      HCIJFER[HA5] = S
939      SUBC(:MT[- 124])
940      S = HCIJFER[HA5]
941      S = 15, Z
942 N,    SUBC(:MT[- 103])
943 N,    S = G
944 N,    JUMP(- 81)
945      S = - HERRORFOUND, P
946 N,    JUMP(- 135)
947      S = HSTATUS[HA5], Z
948 N,    JUMP(- 141)
949      G = - HLID[HA5]
950      S = 1
951      SUBC(:MT[- 95])
952      F = - 1
953      G = HLID[HA5]
954      S = HASWOORD[HA5]
955      RUS(20)
956      SUBC(:MT[- 100])

957
958
959      JUMP(- 146)
960      S = 0
961      HTELLER = S
962      S = HREGELNR
963      HREGELDEL = S
964      S = HRANGNR
965      HRANGDEL = S
966      S = HNEXTSYM[HA5]
967      HNEXTDEL = S
968 U,    S = 88, Z
969 N,    S = 89, Z
970 N,    S = 31, Z
971 N,    JUMP(3)
972      S = 256
973      HNEXTDEL + S
974      JUMP(86)
975      S = 224, Z
976 Y,    S = 88
977 Y,    HNEXTDEL = S
978 N,    S = HNEXTDEL
979 U,    S = 120, P
980 Y,    F = 86
981 Y,    JUMP(- 182)
982      S + :MT[- 47]
983      S = MS
984      G = - S
985      S '*' = '17777'
986      G + S
987      HIDLENGTH[HA5] = G
988      RUS(13)
989      HPRIORITY = S
990      S = - HERRORFOUND, P

```

" NAAR BOODSCHAP UITSTUREN

" HIER BEGINT ASWOORD :=

" NEXTSYM := G := HSYM

" STACK (NUMBER) ENZ.

" CREATENUMBER; STACK (NUMBER) ENZ.

" HIDLENGTH = S; TEXTPASS2[- G] := HIDLENGTH

" ZELFDE ALS BIJ 314

" 7.3
" HRUND = 10

" STACK (NUMBER) ENZ.

" GEEN IDENTIFIER OF NUMBER

" PUNT? *decimal point*
" LAAG TIENTJE? *dropped 10* → starts an octal number
" APOSTROPHE?

" BOODSCHAP(0) *error (0)*
" BECOMES?

" BOODSCHAP(86) *error message (86)*

```

992
993
994 Y, G = - HWIJZER " HTEXTPASS2[- G] := HIDLENGTH
995 S = 1
996 HWIJZER + S
997 SE6
998 S = 95
999 GBILL + S, P
1000 SE71
1001 114239 " MIABE
1002 86592 " PLUS
1003 86593
1004 95298
1005 95299
1006 95300
1007 104005
1008 77894
1009 77895
1010 77896
1011 77897
1012 77898
1013 77899
1014 69196
1015 34381
1016 43086
1017 51791
1018 60496
1019 112721
1020 112722
1021 25171
1022 25172
1023 25173
1024 25174

1025 " 7.3
1026 " BRUND - 12
1027 25175
1028 112728 " BECOMES
1029 25177 " ETHEN
1030 25178
1031 8795
1032 114268
1033 114269 " LIBRARY; IN TEXTPASS2 KOMT -7773
1034 112734
1035 25183 " STHEN
1036 16992 " SELSE
1037 112737 " COMMENT
1038 112738 " (
1039 25187 " )
1040 112740 " [
1041 25189 " ]
1042 114278
1043 114279 " *
1044 112744
1045 8809
1046 114282
1047 114283
1048 114284
1049 114285
1050 114286

```

```

114288
1051      114287
1052      114288
1053      114289
1054      114290
1055      114291
1056      114292      " TRUE
1057      114293      " FALSE
1058      S = MC[- 1]

1059
1060
1061      S '*' - HRAG
1062      MC = S
1063      S = T
1064      S '*' HRAG
1065      S + MC[- 1]
1066      GOTOR(S)
1067      F = 0
1068      JUMP(- 263)

1069
1070
1071 HCREATENUMBER(256)
1072      A = 6
1073      S = 10
1074      SE18
1075      S = 17
1076      SE0
1077      S = 12
1078      SE1
1079      F = 0
1080      HK[HA7] = G
1081      HDEXP[HA7] = G
1082      HF[HA7] = F
1083      HA[HA7] = G
1084      SUBC(:MT[39])
1085      F = 1
1086      HPOWER[HA7] = F
1087      HPUNT[HA7] = - B
1088      HNEGEXP[HA7] = - B
1089      SUBC(:MT[29])
1090      U, S = 12, Z
1091      N, JUMP(77)
1092      SUBC(:MT[26])
1093      S = S, Z
1094      Y, JUMP(-3)
1095      S = 15, Z
1096      F = HF[HA7]
1097      Y, JUMP(216)
1098      S = M[57]
1099      U, S = 2047, R
1100      Y, JUMP(3)
1101      F # 8
1102      G + HIN[HA7]
1103      JUMP(62)

1104
1105
1106      U, S = HPUNT[HA7], R

```

" TRUE
" FALSE

" 7.3
" HRUND - 13

" 7.4
" HCREATENUMBER - 0

*→ The actual
assemblage
of decimal and octal numbers in the algol text*

" GEDECLAREERD IN PROC. HRUND

" HK, HF, HA, HDEXP, HPOWER, HPUNT,
" HNEGEXP, HIN, HLASTF

" VUL ASWOND EN HK := 5

" IN := S := NEXT
" APOSTROPH? DAN OCTAAL

" NEXT

" EINDE?
" DAN IN FREG ZETTEN EN OOK PROC BLOCK VERLATEN

" EKOP IN S
" F ≥ 2 ↑ 37?

" 7.4
" HCREATENUMBER - 1

" OVERFLOW?

```

1107      HPUNT[HA7] = B          " OVERFLOW := IBUE
1108      Y, F * 8
1109      Y, JUMP(58)
1110      U, S - 4095, P        " F ≥ 2 ↑ 38?
1111      Y, JUMP(7)
1112      F * 4
1113      S = HIN[HA7]
1114      U, S '*' 1, Z
1115      N, S + 1
1116      G + S
1117      F * 2
1118      JUMP(49)
1119      U, S - 8191, P        " F ≥ 2 ↑ 39?
1120      JUMP(35)
1121      G = HK[HA7], Z        " SUBROUTINE IN := S := NEXT
1122      S = HASWOORD
1123      N, JUMP(13)
1124      S '*' 15
1125      HIN[HA7] = S
1126      G = - HIDLENGTH        " HIER SPRINGT INITIERING IN
1127      S =: MIK, Z
1128      SUBC(MS)
1129      SE39
1130      HASWOORD = G
1131      S = 1
1132      HIDLENGTH + S
1133      F = 5
1134      HK[HA7] = G
1135      S = HIN[HA7]
1136      GOTOR(MC[-1])
1137      F - 1, Z              " HK = 1?

1138
1139
1140      Y, RUS(4)
1141      Y, JUMP(9)
1142      F - 1, Z              " HK = 2?
1143      Y, RUS(8)
1144      Y, JUMP(6)
1145      F - 1, Z              " HK = 3?
1146      Y, RUS(12)
1147      Y, JUMP(3)
1148      F - 1, Z              " HK = 4?
1149      Y, RUS(16)
1150      N, RUS(20)           " DAN HK = 5
1151      S '*' 15
1152      HIN[HA7] = S
1153      G = HK[HA7]
1154      F - 1
1155      HK[HA7] = G
1156      GOTOR(MC[-1])        " EINDE SUBROUTINE
1157      JUMP(0)              " OVERGEHOUDEN
1158      S = HIN[HA7]
1159      Y, JUMP(7)
1160      F * 2
1161      RUS(1)
1162      U, S '*' 2, Z
1163      N, S - 1
1164      G + S
1165      F * 4

```

" 7.4

" HCREATENUMBER - 2

```

1166      JUMP(3)
1167      S '*' 4, Z
1168      N, F + 1
1169      F * 8
1170      HF[HA7] = F
1171      SUBC(:MT[-49])          " IN := S := NEXT
1172      JUMP(-74)

1173
1174
1175      U, S - 11, Z          " IN = LAAG TIENTJE?
1176      Y, F = 1
1177      Y, HF = F
1178      Y, JUMP(47)          " GOIQ NA TIENTJE
1179      U, S - 10, Z          " IN = PUNT?
1180      Y, HPUNT[HA7] = B
1181      Y, SUBC(:MT[-57])          " IN := S := NEXT
1182      F = HF[HA7]
1183      HLASTE[HA7] = F
1184      F * 10
1185      G + S
1186      HF[HA7] = F
1187      S = HPUNT[HA7], P
1188      Y, S = 1
1189      Y, HDEXP[HA7] - S
1190      S = M[57]
1191      S '*' - 32767, Z          " F ≤ 2 ↑ 40 - 1
1192      Y, SUBC(:MT[-68])          " IN := S := NEXT
1193      Y, JUMP(28)
1194      F = HLASTE[HA7]
1195      HF[HA7] = F
1196      S = 1
1197      HDEXP[HA7] + S
1198      S = HIN[HA7]
1199      S - 4, P
1200      N, JUMP(11)
1201      F + 1
1202      S = M[57]
1203      S '*' - 32767, Z          " F ≤ 2 ↑ 40 - 1
1204      Y, JUMP(8)
1205      S = 1

1206
1207
1208      HDEXP[HA7] + S
1209      JUMP(2)
1210      '000003146'          " = 109951162778 =
1211      '146314632'          " ENTIER(2 ↑ 40/10 + .5)
1212      F = MT[-3]
1213      HF[HA7] = F
1214      SUBC(:MT[-88])          " IN := S := NEXT
1215      U, S - 10, Z          " PUNT?
1216      Y, HPUNT[HA7] = B
1217      Y, SUBC(:MT[-91])          " IN := S := NEXT
1218      U, S - 9, P          " IN > 9
1219      Y, JUMP(4)
1220      S = - HPUNT[HA7], P
1221      Y, S = 1
1222      Y, HDEXP[HA7] + S
1223      JUMP(-10)

```

" 7.4
" HCREATENUMBER - 3

" 7.4
" HCREATENUMBER - 4

```

1224 U, S - 15, Z " EINDE?
1225 Y, JUMP(16) " GOIQ VERWERK
1226 U, S - 11, Z " = LAAG TIENTJE?
1227 N, JUMP(- 47) " GOIQ TERUG
1228 SUBC(:MT[- 102]) " IN := S := NEXT
1229 U, S - 14, Z
1230 Y, HNEGEXP[HA7] = B
1231 N, S - 13, Z
1232 Y, SUBC(:MT[-106]) " IN := S := NEXT
1233 S = HA[HA7]
1234 TENS
1235 S + HIN[HA7]
1236 U, S - 10000, P
1237 Y, S = 10000
1238 HA[HA7] = S
1239 SUBC(:MT[- 113]) " IN := S := NEXT

```

```

1240
1241
1242 S - 9, P
1243 N, JUMP(-9)
1244 S = HNEGEXP[HA7], P " VERWERK
1245 S = HA[HA7]
1246 Y, S = - S
1247 HDEXP[HA7] + S
1248 F = HF[HA7], Z
1249 Y, S = 0
1250 Y, HDEXP[HA7] = S
1251 S = HDEXP[HA7], Z
1252 Y, JUMP(71) " GOIQ KLAAR
1253 F = HF[HA7]
1254 HLASTE[HA7] = F
1255 F * 10
1256 HF[HA7] = F
1257 S = M[57]
1258 S '*' - 32767, Z " F ≤ 2 ↑ 40 - 1
1259 Y, S = 1
1260 Y, HDEXP[HA7] - S
1261 Y, JUMP(-11)
1262 F = HLASTE[HA7]
1263 HF[HA7] = F
1264 S = HDEXP[HA7], Z
1265 N, S = S, P
1266 N, HDEXP[HA7] = - S
1267 N, HNEGEXP[HA7] = B
1268 Y, HNEGEXP[HA7] = - B
1269 U, S - 630, P "HDEXP > 630?
1270 Y, S = 768
1271 Y, HDEXP[HA7] = S
1272 S = -1
1273 HK[HA7] = S

```

```

1274
1275
1276 S = HDEXP[HA7], Z
1277 Y, JUMP(12)
1278 U, S '*' 1, Z " EVEN?
1279 RUS(1)
1280 HDEXP[HA7] = S
1281 S = 1

```

```

" 7.4
" HCREATENUMBER - 5

```

```

" 7.4
" HCREATENUMBER - 6

```

```

1282      PLUSS(HK(HA7))
1283      Y,  JUMP(-8)
1284      S + S
1285      S +: MT[10]
1286      F = MS
1287      F * HPOWER(HA7)
1288      HPOWER(HA7) = F
1289      JUMP(- 14)
1290      F = HF(HA7)
1291      S = HNEGEXP(HA7), P
1292      Y,  F/HPOWER(HA7)
1293      N,  F * HPOWER(HA7)
1294      HF(HA7) = F
1295      JUMP(30)
1296      '0'          "
1297      '12'         " 10
1298      '0'          "
1299      '144'        " 100
1300      '0'          "
1301      '23420'     " 10000
1302      '1'         "
1303      '175 360 400' " 10 ↑ 8
1304      '002 004 341' "
1305      '274 467 701' " 10 ↑ 16
1306      '010 323 561' "
1307      '153 324 053' " 10 ↑ 32

1308
1309
1310      '025 530 236' "
1311      '007 645 000' " 10 ↑ 64
1312      '060 222 356' "
1313      '221 744 601' " 10 ↑ 128
1314      '145 325 237' "
1315      '272 775 636' " 10 ↑ 256
1316      '317 534 306' "
1317      '150 127 246' " 10 ↑ 512
1318      HIN(HA7) = S " SUBROUTINE TEXTPASS2[LID] := S; LID + 1
1319      G = - HLID
1320      S = :HTEXTPASS2, Z
1321      SUBC(MS)
1322      SE38
1323      G = HIN(HA7)
1324      DO(MC[-1])
1325      S = 1
1326      HLID + S
1327      GOTOR(MC[-1]) " EINDE SUBROUTINE
1328      S = M[57], Z
1329      Y,  S = 1
1330      N,  S = 2
1331      SUBC(:MT[- 14])
1332      F = HF(HA7)
1333      S = M[57], Z
1334      N,  SUBC(:MT[- 17])
1335      S = HF(HA7)[1] " STAART
1336      SUBC(:MT[- 19])
1337      SE6
1338      S = 50
1339      GRILL - S, P
1340      SE115

```

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SE71

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VERTAALTIJD 3
EXECUTIETIJD 124

AANTAL OVER STROOM 1 GELEZEN GETALLEN 0

AANTAL OVER STROOM 2 GELEZEN GETALLEN 0