CARRIAGE RETURN

```
025F   1A   INC  RA    ;RA-Source pointer- +01
60     8A   GLO  RA
61     FA   ANI
62     0F         ;Strip first 4 bits from RA.0
63     3A   BNZ
64     5F         ;Continue to increment till last 4 bits = 00
65     D5   SEP  R5    ;Then return
```

ASCII TO HEX CONVERSION

```
0266   D4   SEP  R4
67     02         ;Call Convert ASCII/Hex
68     6F         ;(Byte in RE.1 → RF.1 low 4 bits)
69     8E   GLO  RE
6A     BE   PHI  RE    ;Get the next byte for conversion
6B     D4   SEP  R4
6C     02         ;Call Convert ASCII/Hex
6D     6F
6E     D5   SEP  R5    ;Return
```

CONVERT ASCII/HEX

```
026F   9E   GHI  RE    ;Get ASCII passed by caller in RE.0
70     FD   SDI        ;Subtract 39-ASCII
71     39              ;(If negative, ASCII >39)
72     33   BPZ        ;Branch if positive (ASCII is a number)
73     78
74     9E   GHI  RE
75     FC   ADI        ;Add 09 to ASCII letters
76     09
77     BE   PHI  RE    ;Store intermediate result in RE.0
78     9E   GHI  RE    ;Get ASCII (either +9 or not depending)
79     FA   ANI
7A     0F              ;Strip off first 4 bits
7B     E2   SEX  2     ;X = 2
7C     52   STR  R2    ;Push for combining with answer
7D     9F   GHI  RF
7E     FE   SHL        ;Shift RF.1 (answer) left x 04
7F     FE   SHL
0280   FE   SHL        ;To make room for next nibble
81     FE   SHL
82     F1   OR         ;"OR" with byte on stack to combine
83     BF   PHI  RF    ;Put in RF.1
84     D5   SEP  R5    ;Return
```