Mystery program — add comments for EACH line

0000 120009 BR main ;BRANCH TO MAIN @ MEMORY LOCATION 0009

0003 0000 n1: .BLOCK 2  ;ALLOCATE SPACE FOR VARIABLE “n1”

0005 0000 n2: .BLOCK 2  ;ALLOCATE SPACE FOR VARIABLE “n2”

0007 0000 n3: .BLOCK 2 ;#2d ;ALLOCATE SPACE FOR VARIABLE “n2”

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| 0009 310005 main: | DECI n2,d ;DECIMAL (n2) IN; DIRECT |
| 000C 310007 | DECI n3,d ;DECIMAL (n3) IN; DIRECT |
| 000F C10005 | LDWA n2,d ;LOAD WORD (n2) TO ACCUMULATOR; DIRECT |
| 0012 A10007 | CPWA n3,d ;COMPARE WORD (n3) TO ACCUMULATOR; DIRECT |
| 0015 16002A | BRLT Ll |
| 0018 310003 | DECI nl,d ;DECIMAL (n1) IN; DIRECT |
| 001B C10003 | LDWA nl,d ;LOAD WORD (n1) TO ACCUMULATOR; DIRECT |
| 001E A10007 | CPWA n3,d ;COMPARE WORD (n3) TO ACCUMULATOR; DIRECT |
| 0021 160074  0024 120065 | BRLT L7  BR L6 |
| 0027 El0007 | STWA n3,d ;STORE WORD (n3) TO ACCUMULATOR; DIRECT |
| 002A 310003 Ll: | DECI n1,d ;DECIMAL (n1) IN; DIRECT |
| 002D C10005 | LDWA n2,d ;LOAD WORD (n2) TO ACCUMULATOR; DIRECT |
| 0030 Al 0003 | CPWA nl,d ;COMPARE WORD (n1) TO ACCUMULATOR; DIRECT |
| 0033 160053 | BRLT L5 |
| 0036 390003 | DECO n1,d ;DECIMAL (n1) OUT; DIRECT |
| 0039 390005 | DECO n2,d ;DECIMAL (n2) OUT; DIRECT |
| 003C 390007 L2: | DECO n3,d ;DECIMAL (n3) OUT; DIRECT |
| 003F 00 | STOP |
| 0040 390005 : | DECO n2,d ;DECIMAL (n2) OUT; DIRECT |
| 0043 390007  0046 120081 | DECO n3,d ;DECIMAL (n3) OUT; DIRECT  BR L9 |
| 0049 390003 : | DECO nl,d ;DECIMAL (n1) OUT; DIRECT |
| 004C 390005 | DECO n2,d ;DECIMAL (n2) OUT; DIRECT |
| 004F 00 | STOP |
| 0050 El0003 | STWA n1,d ;STORE WORD (n1) TO ACCUMULATOR; DIRECT |
| 0053 C10007 L5: | LDWA n3,d ;LOAD WORD (n3) TO ACCUMULATOR; DIRECT |
| 0056 Al0003 | CPWA nl,d ;COMPARE WORD (n1) TO ACCUMULATOR; DIRECT |
| 0059 160040 | BRLT L3 |
| 005C 390005 | DECO n2,d ;DECIMAL(n2) OUT; DIRECT |
| 005F 390003  0062 12003C | DECO nl,d ;DECIMAL (n1) OUT; DIRECT  BR L2 |
| 0065 390007 6: | DECO n3,d ;DECIMAL (n3) OUT; DIRECT |
| 0068 C10003 | LDWA n1,d ;LOAD WORD (n1); DIRECT |
| 006B Al0005 | CPWA n2,d ;COMPARE WORD (n2) TO ACCUMULATOR; DIRECT |
| 006E 160049  0071 12007E | BRLT L4  BR L8 |
| 0074 390003 : | DECO , ;DECIMAL (n1) OUT; DIRECT |
| 0077 390007 | DECO n3,d DECIMAL (n3) OUT; DIRECT |
| 007A 390005 | DECO n2,d DECIMAL (n2) OUT; DIRECT |
| 007D 00 | STOP |
| 007E 390005  : | DECO n2,d DECIMAL (n2) OUT; DIRECT |
| 0081 390003 : | DECO ,d DECIMAL (n1) OUT; DIRECT |
| 0084 00 | STOP |
| 0085 | .END |