

MCM TAPE TAPE-00.TXT

TAPE LABEL/ANNOTATIONS: "E,1"

GROUPS:

0 6 10 11 13 14 20 21 50 51 100
101

NAMES IN GROUP 0:

FMT EDI ΔCR DXΔ RLD ANΔ ΔLD Z INS ΔEX ΔCP CHK
CS RAM ROM

∇FMT I

[1] A[;1]←46ρ'0'◦A←46 81ρ' '◦XS 0
[2] (1↑I) XS'W'A'
[3] →(0<ρ,I←1↓I)/2
[4] XS'EX'A'

∇

∇EDIT;L;X;LI

[1] L←6↓XS'LINE: '◦XS 7↓XS'GROUP: '
[2] LI←4↑X←6((3 0 0RL), ' '),A[L;]
[3] →((LI=0,L),1)/E,U,C
[4] C:→2◦L←LI
[5] U:A[L;]←4↓XS'
[6] →(46≥L←L+1)/2
[7] →1
[8] E:XS 0

∇

∇ΔCR GND;IΔ;GΔ;NMD;PLΔ;PSΔ

[1] PSΔ←48 51◦PW←95◦OU 1 16◦PLΔ←0
[2] →L3Δ◦GND←1◦NMD←ANΔ GND◦→(0=0\0ρGND)/L0Δ
[3] L0Δ:GND←GND[ΔGND←((GNDιGND)=ιρGND)/GND←,GND]
[4] L1Δ:→EΔ[ι0=ρGND
[5] XS GΔ◦NMD←XS N GΔ←' 'ρGND
[6] RLD 2◦XS'◦XS'LISTING GROUP: ',(GΔ),(60ρ' '),Δ(2 2 2 0 0=NC'DAT')/'DAT''''
[7] L3Δ:IΔ←IO-1◦XS'◦RLΔ 1+1↑ρ←((ι/ρNMD)÷80),80)ρNMD-20 4ρ' '
[8] L2Δ:→E1Δ[ιIΔ=IO+1+1↑ρNMD
[9] →L2Δ◦DXΔ NMD[IΔ←IΔ+1;]
[10] E1Δ:PLΔ←0◦RLΔ 1+(1↑PSΔ)-PLΔ
[11] →L1Δ◦GND←1↓GND
[12] EΔ:OFF◦→0

∇

∇DXΔ XΔ;DΔ;NΔ;NMD;HΔ

[1] →(VΔΔ,VΔ,VΔ,FΔΔ,VΔ,A2Δ)[IO+NC XΔ]
[2] FΔΔ:RLΔ 2+NΔ←1↑ρDΔ←CR XΔ
[3] HΔ←6 1 0(NΔ,1)ρ(ιNΔ)-IO
[4] HΔ[NΔ←IO;]←' '◦HΔ[;IO+5 4,3-ρNΔ-1]←(NΔ,3)ρ']['

```

[5]  FΔ:⊠←HΔ[NΔ;],DΔ[NΔ;]
[6]  →EΔ◊⊠←'      ∇'◊→((⊠I0+-1+1↑ρHΔ)≥NΔ←NΔ+1)/FΔ
[7]  VΔ:NMΔ←(',(⊠ρDΔ),''),((6ρ0)≠0\0ρDΔ←⊠XΔ)/' ALPHA'
[8]  NMΔ[( ' '=NMΔ)/ιρNMΔ]←',' '
[9]  →EΔ◊⊠←XΔ,' ': ' ',NMΔ◊RLΔ 2
[10] A2Δ:→EΔ◊⊠←XΔ,' α2'◊RLΔ 2
[11] VΔΔ:⊠←XΔ,' NO VALUE'◊RLΔ 2
[12] EΔ:⊠←'' N

```

∇

∇RLΔ N

```

[1]  →0×ι(1↑PSΔ)≥PLΔ←PLΔ+N
[2]  PLΔ←N◊⊠←(((-1↑PSΔ)-(-1↑PSΔ)|PLΔ-N)-4×-1+[PLΔ÷1↑PSΔ],1)ρ' '

```

∇

∇ZΔ←ANΔ XΔ;JΔ

```

[1]  ZΔ←0 4ρ' '◊→(2=ρρZΔ←XΔ)/0
[2]  →0×ι0=ρXΔ←(((XΔ=' ')ι0)-⊠I0)ιXΔ
[3]  ZΔ←ZΔ71 4ρ((JΔ←(XΔι' ')-⊠I0)↑XΔ),' '
[4]  →2◊XΔ←JΔιXΔ

```

∇

∇ΔLD X;G;I;PLΔ;PSΔ

```

[1]  ⊠←'TAPE: ',(⊠X),(60ρ' '),⊠3↑((0≠⊠NC'DAT')/'DAT'),' ' ' '◊⊠PW←130◊⊠OU 1
16◊PSΔ←48 51
[2]  ⊠←'ACTIVE GROUPS ARE: ',⊠G←⊠XNι0×I←1◊⊠←''
[3]  PLΔ←5◊⊠←'GROUP NAMES'◊⊠←''
[4]  X←((1,(-1+1↑ρX)ρ0)÷1 6ρ(4 0 0⊠G[I]),' '),X←(([(×/ρX)÷80],80)ρ(X←⊠XN
G[I])720 4ρ' '
[5]  →((I←I+1)≤ρG)/4◊⊠←X◊RLΔ 1↑ρX
[6]  RLΔ 1+(1↑PSΔ)-PLΔ◊⊠XFι0

```

∇

∇R←Z;X

```

[1]  ⊠←''◊⊠←1ιXL◊R←10◊RLΔ 2
[2]  ⊠←''◊⊠←X◊RLΔ1+1↑(ρX←⊠1ιXL),1

```

∇

∇INS;L;I

```

[1]  L←⊠12ι⊠'AFTER LINE: '◊⊠XS ⊠7ι⊠'GROUP: '
[2]  I←('4'=A[;1])/ι1↑ρA R
[3]  A[I+1;]←A[I;]
[4]  →(L<I←I-1)/3
[5]  A[L+1;1]←'0'◊A[L+1;]←81ρ' ' Z

```

∇

∇ΔEX N;I;TΔ

```

[1]  I←1↑N◊→(0≠I←1ιN←2↑N,0)/5
[2]  →4◊⊠←⊠TΔ◊⊠←''◊→('←'∈⊠←TΔ←1⊠' ')/8 3
[3]  ◊⊠TΔ

```

```

[4] →2°⊙('L',2⊕9+I←I+1), '←TΔ' °→(0=1↑N)/2°⊙←''
[5] →7°⊙←⊙TΔ°⊙←'' °→('←'←'∈⊙←TΔ←⊙'L',2⊕9+I←I+1)/0 6
[6] °⊙TΔ
[7] →5°⊙←''
[8] °⊙('L',2⊕9+I←I+1), '←TΔ'
[9] ⊙N=0 INPUT FROM KB, LINES NOT SAVES
[10] ⊙N≠0 INPUT FROM KB, LINES SAVED STARTING AT N
[11] (0=1↑N)∧0≠1↓N INPUT FROM L,2⊕1↓N

```

▽

▽ΔCP;ΔG;ΔGN

```

[1] ΔG←⊙XN↓0°⊙PT←10
[2] 'GROUP ';1↑ΔG°⊙XS 1↑ΔG°ΔGN←⊙XN 1↑ΔG
[3] ⊙('1↑ΔG) ⊙X', 'WC' [⊙I0+0=⊙NC 1 4↑ΔGN], '[2] 1 4↑ΔGN'
[4] →(0≠ρΔGN←1 0↓ΔGN)/3 5
[5] →(0<ρΔG←1↓ΔG)/2
[6] ⊙XS 0°⊙XF[2]↓0
[7] 'COPY DONE' °⊙PT←0

```

▽

▽CHK;X;Y

```

[1] X←⊙ 1 (↓19)+1-⊙I0
[2] Y←176733 173599 165295 175999 221948 163253 154356 166212 172482 175298 171720 160461
[3] Y←Y,250427 171199 233973 221551 522240 522240 522240
[4] →(0=x/ρX←⊙(Y≠X)/2 19ρ'MMMBBBBBBBBBBBBBBBB0120123456789ABCDEF')/GOOD
[5] 'MEMORY BAD'
[6] X
[7] →0
[8] GOOD:'MEMORY OK'

```

▽

CS [numeric vector of length 19; element size 3 byte(s)]

```

176733 173599 165295 175999 221948 163253 154356 166212 172482 175298 171720
160461 250427 171199 233973 221551 522240 522240 522240

```

▽RAM;X

```

[1] X←⊙1↑ 2↑14⊙'MEMORY SIZE: 8K'
[2] →(0=⊙_0 X)/GOOD
[3] 'RAM MEMORY BAD'
[4] →0
[5] GOOD:'RAM MEMORY OK'

```

▽

▽ROM;X;Y

```

[1] X←⊙ 1 (↓19)+1-⊙I0
[2] Y←179798 173599 165295 175999 221948 163253 155750 166212 172482 175298 171720 131857
[3] Y←Y,250427 171199 522240 522240 522240 522240
[4] →(0=ρ(Y≠X)/↓19)/GOOD
[5] 'ROM MEMORY BAD'
[6] →0
[7] GOOD:'ROM MEMORY OK'

```

▽

NAMES IN GROUP 6:
COM XM SET

∇COM

```
[1] SETUP◦□PT←10
[2] WAIT:'PHONE 1-416-678-6900'
[3] →WAIT[ι2>4|1↑□OUι0
[4] XM'*'◦□DL 2
[5] XM'900JMS'
[6] XM'37'
[7] XM''
[8] XM'APL'
[9] □PT←0
[10] L0:XM □''◦□IN 0
[11] →L0
```

∇

∇R←XM X

```
[1] ◦□IN □YA 1 31
[2] R←□''◦□←X
[3] R←(BC≠R)/R
```

∇

∇SETUP;INT;A

```
[1] □I0←0◦'I'□YXι0◦'0'□YXι0◦□OU(A←□YA 1 31),1
[2] ◦□OU A,0◦YCO □Y0[0]ι11
[3] Y0 □Y0[2]ALF
[4] →SI[ι~INT←32≤64|1↑1↓□IN A◦□OU A,6
[5] Y0 □YI[2]ALF
[6] SI:YCI □YI[0]ι11
[7] YI □YI[1]ι128
[8] ◦□OU A,0◦□BO 52
```

∇

NAMES IN GROUP 10:

SET	SIG	MON	ALF	BI	APL	XFE	PΔY	PPΔ	CTL	WID	MΔO
NVE	MΔI	VOU	FMT	X	A	PT	ΔC	QSO	OSO		

∇SETUP;INT

```
[1] □I0←0◦'I'□YXι0◦'0'□YXι0◦□OU(A←□YA 1 31),1
[2] □←''◦YCO □Y0[0]ι11
[3] Y0 □Y0[2]ALF
[4] →SI[ι~INT←32≤64|1↑1↓□IN A◦□OU A,6
[5] Y0 □YI[2]ALF
[6] SI:YCI □YI[0]ι11
[7] YI □YI[1]ι128
[8] □←''◦□BO 52
```

∇

∇SIGNON;N;P

- [1] N←'4620840'
- [2] ◦IN YA 1 31◦P←8↓9'PASSWORD:PASSAPL'◦IN 0
- [3] LP1:→LP1[ι2>4|¯1↑OUι0
- [4] XFER'◦DL 10
- [5] XFER'CAPLPLUS'◦B0 29
- [6] XFER'PASSAPL'
- [7] XFER')'
- [8] XFER')',N,P J

∇

∇MONITOR

- [1] L1←IO'◦IN 0
- [2] L2←'◦L1◦IN 1↑OU YA 1 31
- [3] ◦L2◦OU 0
- [4] →1[ι0<ρL1

∇

ALF [vector of type char of length 109; element size 1 byte(s)]

0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZΔ .¯<=>≠vΛ∇∧+
x÷*@[|!|O~?/∖\↕↓LTeι,ρφθΩ←;→ΔΨ[]()◦@':∇αωηυ>c"⊕,⊖⊗⊘⊙⊚⊛⊜⊝⊞⊟⊠⊡⊢⊣⊤⊥⊦⊧⊨⊩⊪⊫⊬⊭⊮⊯⊰⊱⊲⊳⊴⊵⊶⊷⊸⊹⊺⊻⊼⊽⊾⊿

BI [numeric vector of length 128; element size 1 byte(s)]

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57
58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84
85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108
109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127

∇APL

- [1] L←'◦BC←Y 108
- [2] IN:L1←(ρL)↓L◦IN 0
- [3] L←L2←XFER L1
- [4] DLP:→IN[ι(¯1+ρL)≤N←(LιBC)-IO
- [5] N↑L
- [6] N←((BC≠L←N↓L)ι1)-IO
- [7] →DLP◦L←N↓L
- [8] →IN

∇

∇R←XFER X

- [1] ◦IN 1↑OU YA 1 31
- [2] R←'◦X
- [3] ◦'IN CASE ATTENTION'

∇

∇PAYTABS;ΔIO;M;MI;CI;T

- [1] IO←0◦ΔIO←IO
- [2] 'SUPPORT FOR: PPA TERM
- [3] M←CTL,':',(4YCI),':',4YCO
- [4] T←(10ρ' '), 'YCI:',(12ρ' '), 'YCO:'

```

[5] T PPA M
[6] MI←128 1ρ128
[7] M←(3⊗MI),':',(□Y YI[MI]),128 3ρ' '
[8] T←,(YI≥128)≠MI
[9] M[T;4+ι3]←CTL[YI[T]-128;]
[10] M←16 64ρ1 0 2⊗8 16 8ρM
[11] 'YI:'PPA M
[12] MI←109 1↑MI
[13] M←(109 2ρ' '), (□Y MI),':',(3⊗Y0[MI]),' '
[14] M←16 64ρ1 0 2⊗8 16 8ρM,19 8ρ' '
[15] 'Y0:'PPA M
[16] □IO←ΔIO

```

▽

▽P1 PPA P2

```
[1] □←P2◦□←P1
```

▽

CTL [3 by 11 array of type char; element size 1 byte(s)]

```
--
CO
NL
BS
IDL
CRR
FF
SO
SI
EOT
BOT
```

▽R←WIDTH

```
[1] R←□PW
```

▽

▽R←MΔOUT X;I;N

```
[1] →R←0×ι(' '≠0\0ρX)∨(2≠ρρX)∨WIDTH<¯1↑1,ρX
[2] →R←VOUT FMT ρX
[3] →END[ι0=x/ρX
[4] N←1↑ρX◦I←1◦'ORIGIN 1'
[5] LP:→R←VOUT X[I;]
[6] →LP[ιN≥I←I+1
[7] END:R←ι0
```

▽

▽R←NVEVAL X

```
[1] R←⊘X
[2] →0×ι(0=0\0ρR)∧1=ρρR
[3] R←(0=ρρR)/,R
```

▽

```

∇R←MAIN X;I;N;L;E
[1] →R←0×12≠ρN←NVEVAL L←XFER X
[2] →0×10=x/ρR←Nρ' '◦I←1◦'ORIGIN 1'
[3] LP:→ERR[ι(N[2]<ρL)∨0=ρL←XFER L
[4] R[I;]←N[2]↑L
[5] →LP[ιN[1]≥I←I+1
[6] →0×10=ρL←XFER L T
[7] ERR:→LP[ι(N[1]≥I)∧0<ρL←XFER' '
[8] R←(1,ρR)ρR
∇

```

```

∇R←VOUT X;Y
[1] Y←XFER X
[2] →R←0×ι(ρY)≠ρX
[3] R←0×ιY∨.≠X
∇

```

```

∇R←FMT X
[1] R←⌘X
∇

```

X [numeric scalar: element size=8 byte(s)]
3D27C3AA1FFFEA40

A [numeric scalar: element size=1 byte(s)]
69

```

∇PT;PX;PY
[1] ◦□OU 1◦'0'□YXι0◦PX←□Y0[2]ALF◦PY←□Y0[0]ι11◦□IO←0
[2] □←'ROW IN OUT'◦□←''◦□←'CONTROL TABLE'
[3] □←(9 1ρ3 8 4 4 4 14 4 4 4)⌘(11 1ρι11), (□YI[0]ι11), PY
[4] □←''◦□←'INPUT TABLE'◦□←''
[5] □←4⌘8 16ρ□YI[1]ι128
[6] □←''◦□←'OUTPUT TABLE'◦□←''
[7] □←4⌘7 16ρPX,0 0 0
[8] □IO←1
∇

```

```

∇ΔC;L;BC;L1;N
[1] BC←□Y 108◦□OU 1 Y
[2] IN:◦□IN 1↑□OU 2◦L1←5↓□←□' '◦□IN 0
[3] ◦YCO □Y0[0](ι11)-□IO◦Y0 □Y0[2]ALF
[4] L←□' '◦□←L1
[5] ◦□OU 1
[6] →(0≠ρL←(2+ρ□←((LιBC)-□IO)↑L)↓L)/6
[7] →IN
∇

```

∇QSO E

- [1] °IN 1↑OU YA 1 31
- [2] °YCO Y0[0](111)-I0°Y0 Y0[2]ALF
- [3] 'PHONE 547-6650,PRESS RETURN.'
- [4] XFER '\APL'
- [5] XFER ')ON 061952[COMSYS]

∇

∇OSO

- [1] °IN 1↑OU YA 1 31°I0←0
- [2] °YCO Y0[0](111)-I0°Y0 Y0[2]ALF
- [3] 'PHONE 1-231-5000,PRESS RETURN.'
- [4] WAIT:→WAIT[12>4|1↑OU10
- [5] XFER ')PPP '
- [6] XFER ')9060:9060'

∇

NAMES IN GROUP 11:

YI YCI YCO MNE OVS TER

YI [numeric vector of length 128; element size 2 byte(s)]

132 108 108 108 137 108 108 108 131 108 108 108 108 130 108 108 108 108 108 108
108 108 108 108 108 108 108 108 108 108 108 108 39 61 100 47 106 108 73 91 87 88
56 52 75 53 40 66 0 1 2 3 4 5 6 7 8 9 92 81 42 44 46 64 108 11 12 13 14 15 16 17
18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 85 67 86 69 53 108 108
108
108 108 108 108 108 108 108 108 108 132

YCI [4 by 11 numeric array; element size 2 byte(s)]

39 176 70 226
72 129 6 0
0 13 10 0
8 0 0 0
0 0 0 0
0 0 0 0
0 0 10 0
128 0 0 0
128 0 0 0
0 7 7 0
0 0 0 0

YCO [4 by 11 numeric array; element size 2 byte(s)]

39 176 70 226
72 129 6 0
0 13 10 0
8 0 0 0
0 0 0 0
0 0 0 0
0 0 10 0
128 0 0 0
128 0 0 0
0 7 7 0
0 0 0 0

MNE [numeric scalar: element size=1 byte(s)]
16

OVS [numeric vector of length 1; element size 1 byte(s)]
130

TER [vector of type char of length 4; element size 1 byte(s)]
TY33

NAMES IN GROUP 13:

YCI TER YI YO YCO YYI YYO

YCI [4 by 11 numeric array; element size 2 byte(s)]

39 65 1 184
120 130 6 0
0 8 45 31
29 0 0 0
61 0 0 0
0 61 0 0
48 3 46 61
31 0 0 0
28 0 0 0
60 128 0 0
52 128 0 0

TER [vector of type char of length 10; element size 1 byte(s)]
2741/APL/C

YI [numeric vector of length 128; element size 1 byte(s)]

39 80 30 20 4 25 22 66 5 86 15 26 108 108 108 108 2 40 24 54 36 108 108 108 6 19
21 27 136 131 108 135 1 23 34 17 0 29 18 35 7 28 14 85 108 130 108 108 3 32 31 16
9 33 12 52 8 11 13 75 137 132 108 108 39 82 63 89 43 62 38 67 44 88 73 56 108 108
108 108 41 92 72 55 99 108 108 108 45 74 91 64 136 131 108 135 100 60 98 93 49 59
37 69 46 76 58 87 108 130 108 108 42 97 70 10 48 95 71 53 47 94 96 81 137 132 108
108

YO [numeric vector of length 109; element size 1 byte(s)]

36 32 16 48 4 8 24 40 56 52 115 57 54 58 42 10 51 35 38 25 3 26 6 33 18 5 11 27 41
37 2 50 49 53 34 39 20 102 70 0 17 80 112 68 72 88 104 120 116 100 130 130 55 119
19 83 75 130 106 101 97 130 69 66 91 130 7 71 130 103 114 118 82 74 89 59 105 130
130 130 1 123 65 130 130 43 9 107 73 67 130 90 81 99 121 117 122 113 98 84 96 130
130 130 130 130 130 130 130

YCO [4 by 11 numeric array; element size 2 byte(s)]

39 65 1 184
120 130 6 0
0 8 45 31
29 0 0 0
61 0 0 0
0 61 0 0
48 3 46 61

31 0 0 0
28 0 0 0
60 128 0 0
52 128 0 0

YYI [18 by 1 array of type char; element size 8 byte(s)]
41000000274101B8 78820600082D1F1D 3D003D30032E3D1F 1C3C803480242010
3004081828383473 39363A2A0A332326 19031A062112050B 1B29250232313522
2714664600115070 4448586878746482 82377713534B826A 65618245425B8207
4782677276524A59 3B69828282017B41 82822B096B494382 5A516379757A7162
5460828282827F82 8282000000000000

YY0 [18 by 1 array of type char; element size 8 byte(s)]
41000000274101B8 78820600082D1F1D 3D003D30032E3D1F 1C3C803480242010
3004081828383473 39363A2A0A332326 19031A062112050B 1B29250232313522
2714664600115070 4448586878746482 82377713534B826A 65618245425B8207
4782677276524A59 3B69828282017B41 82822B096B494382 5A516379757A7162
5460828282827F82 8282000000000000

NAMES IN GROUP 14:

YCI TER YI YO YCO YYI YY0

YCI [4 by 11 numeric array; element size 2 byte(s)]
7 66 1 184
120 130 6 0
0 8 45 31
29 0 0 0
61 0 0 0
0 61 0 0
0 3 46 61
31 0 0 0
28 0 0 0
45 60 0 0
52 128 0 0

TER [vector of type char of length 20; element size 1 byte(s)]
BURROUGHS APL/2741/C

YI [numeric vector of length 128; element size 1 byte(s)]
39 80 30 20 4 25 22 66 5 86 15 26 108 108 108 108 2 40 24 54 36 108 108 108 6 19
21 27 136 131 108 135 1 23 34 17 0 29 18 35 7 28 14 85 108 108 108 108 3 32 31 16
9 33 12 52 8 11 13 75 130 132 108 108 39 82 63 89 43 62 38 67 44 88 73 56 108 108
108 108 41 92 72 55 99 108 108 108 45 74 91 64 136 131 108 135 100 60 98 93 49 59
37 69 46 76 58 87 108 108 108 108 42 97 70 10 48 95 71 53 47 94 96 81 130 132 108
108

YO [numeric vector of length 109; element size 1 byte(s)]
36 32 16 48 4 8 24 40 56 52 115 57 54 58 42 10 51 35 38 25 3 26 6 33 18 5 11 27 41
37 2 50 49 53 34 39 20 102 70 0 17 80 112 68 72 88 104 120 116 100 130 130 55 119
19 83 75 130 106 101 97 130 69 66 91 130 7 71 130 103 114 118 82 74 89 59 105 130

130 130 1 123 65 130 130 43 9 107 73 67 130 90 81 99 121 117 122 113 98 84 96 130
130 130 130 130 130 130 130

YCO [4 by 11 numeric array; element size 2 byte(s)]

7 65 1 184
120 130 6 0
0 8 128 31
29 0 0 0
61 0 0 0
0 61 0 0
0 3 46 61
31 0 0 0
28 0 0 0
128 128 0 0
128 128 0 0

YYI [18 by 1 array of type char; element size 8 byte(s)]

41000000074101B8 7882060008801F1D 3D003D00032E3D1F 1C80808080242010
3004081828383473 39363A2A0A332326 19031A062112050B 1B29250232313522
2714664600115070 4448586878746482 82377713534B826A 65618245425B8207
4782677276524A59 3B69828282017B41 82822B096B494382 5A516379757A7162
5460828282827F82 8282000000000000

YY0 [18 by 1 array of type char; element size 8 byte(s)]

41000000074101B8 7882060008801F1D 3D003D00032E3D1F 1C80808080242010
3004081828383473 39363A2A0A332326 19031A062112050B 1B29250232313522
2714664600115070 4448586878746482 82377713534B826A 65618245425B8207
4782677276524A59 3B69828282017B41 82822B096B494382 5A516379757A7162
5460828282827F82 8282000000000000

NAMES IN GROUP 20:

COM XM WHO T BC SET YCI YCO YI YO ALF YYI
YY0

▽COMSHARE;X;A

[1] °'I'□YW'YYI' °'0'□YW'YY0' °'0'□YX10 °□IN A←1↑□OU □YA 193
[2] WAIT:'PHONE 1-416-678-6900' °□PT←10
[3] →WAIT[12>4] | 1↑□OU10
[4] XM'*' °□DL 2
[5] XM '900JMS'
[6] XM '37'
[7] XM''
[8] X←XM'APL'
[9] □PT←0
[10] L0:X←□←□' ' °□IN 0 °□←X °'0'□YX10 °□OU 1
[11] →L0 °X←XM X °'0'□YW'YY0' °□OU A

▽

```

    ∇R←XM X
[1]  °□IN □YA 1 31
[2]  R←□' ' °□←X
[3]  R←(BC≠R)/R
    ∇

```

WHO [vector of type char of length 8; element size 1 byte(s)]
 COMSHARE

```

    ∇T;AΔ
[1]  →((∧/' '=AΔ←□' '),1)/0 2
[2]  AΔ←±AΔ
[3]  →X[ι2>ρρAΔ
[4]  →Y[ι2=ρρAΔ
[5]  AΔ←((×/^-1↓ρAΔ),^-1↑ρAΔ)ρAΔ
[6]  Y:□←AΔ[□I0;]
[7]  AΔ←1 0↓AΔ
[8]  →Y[ι0<1↑ρAΔ
[9]  →1
[10] X:□←AΔ
[11] →1
    ∇

```

BC [scalar of type char: element size=1 byte(s)]
 (

```

    ∇SETUP;INT;A
[1]  □I0←0°'I'□YXι0°'0'□YXι0°□OU(A←□YA 1 31),1
[2]  °□OU A,0°YCO □Y0[0]ι11
[3]  Y0 □Y0[2]ALF
[4]  →SI[ι~INT←32≤64|1↑1↓□IN A°□OU A,6
[5]  Y0 □YI[2]ALF
[6]  SI:YCI □YI[0]ι11
[7]  YI □YI[1]ι128
[8]  °□OU A,0°□BO 52
    ∇

```

YCI [4 by 11 numeric array; element size 2 byte(s)]

```

7 68 1 181
120 130 6 0
0 0 45 31
29 0 0 0
61 0 0 0
0 61 0 0
0 3 46 61
31 0 0 0
28 0 0 0
45 60 0 0
52 31 0 0

```

YCO [4 by 11 numeric array; element size 2 byte(s)]

```

7 65 1 181
120 130 6 0

```


∇STSC;P

```
[1] P←')4620840:'°IN 0
[2] 'I'YW'YYI'°'0'YW'YY0'°IN 1↑OU YA 193
[3] WAIT:'PHONE 1-416-360-8864'°PT←10
[4] →WAIT[12>4]1↑OU10
[5] XMX''°DL 5
[6] XMX'CAPLPLUS'°BO 29
[7] XMX'PASSAPL'
[8] XMX')'
[9] XMX P←''°←P
[10] PT←0
[11] L0: XMX ''°IN 0
[12] →L0
```

∇

∇R←XM X

```
[1] °IN YA 1 31
[2] R←''°←X
[3] R←(BC≠R)/R
```

∇

BC [scalar of type char: element size=1 byte(s)]

↑

∇SETUP;INT;A

```
[1] I0←0°'I'YX10°'0'YX10°OU(A←YA 1 31),1
[2] °OU A,0°YCO Y0[0]111
[3] Y0 Y0[2]ALF
[4] →SI[1~INT←32≤64|1↑1↓IN A°OU A,6
[5] Y0 YI[2]ALF
[6] SI:YCI YI[0]111
[7] YI YI[1]128
[8] °OU A,0°BO 52
```

∇

YCI [4 by 11 numeric array; element size 2 byte(s)]

```
7 67 1 181
120 130 6 0
0 0 45 31
29 0 0 0
61 0 0 0
0 61 0 0
0 3 46 61
31 0 0 0
28 0 0 0
45 60 0 0
52 31 0 0
```

YCO [4 by 11 numeric array; element size 2 byte(s)]

```
7 65 1 181
120 130 6 0
0 0 128 31
```

29 0 0 0
61 0 0 0
0 61 0 0
0 3 46 61
31 0 0 0
28 0 0 0
128 128 0 0
128 128 0 0

YI [numeric vector of length 128; element size 1 byte(s)]
39 80 30 20 4 25 22 66 5 86 15 26 108 108 108 108 2 40 24 54 36 108 108 108 6 19
21 27 136 131 108 135 1 23 34 17 0 29 18 35 7 28 14 85 108 108 108 108 3 32 31 16
9 33 12 52 8 11 13 75 130 132 108 108 39 82 63 89 43 62 38 67 44 88 73 56 108 108
108 108 41 92 72 55 99 108 108 108 45 74 91 64 136 131 108 135 100 60 98 93 49 59
37 69 46 76 58 87 108 108 108 108 42 97 70 10 48 95 71 53 47 94 96 81 130 132 108
108

Y0 [numeric vector of length 109; element size 1 byte(s)]
36 32 16 48 4 8 24 40 56 52 115 57 54 58 42 10 51 35 38 25 3 26 6 33 18 5 11 27 41
37 2 50 49 53 34 39 20 102 70 0 17 80 112 68 72 88 104 120 116 100 130 130 55 119
19 83 75 130 106 101 97 130 69 66 91 130 7 71 130 103 114 118 82 74 89 59 105 130
130 130 1 123 65 130 130 43 9 107 73 67 130 90 81 99 121 117 122 113 98 84 96 130
130 130 130 130 130 130 130

ALF [vector of type char of length 109; element size 1 byte(s)]
0123456789 ABCDEFGHIJKLMNOPQRSTUVWXYZ .<=>≠vΛ∨∧+-
x÷*⊗[|!|~?/\/\×↑↓LTeI,ρ⊕⊗⊖;-ΔΨ[]()∘⊗':∇αωηυ>C"⊕,⊞]⊞\$⊞

∇T;AΔ
[1] →((Λ/' '=AΔ←[]'),1)/0 2
[2] AΔ←⊕AΔ
[3] →X[ι2>ρρAΔ
[4] →Y[ι2=ρρAΔ
[5] AΔ←((×/^-1↓ρAΔ),^-1↑ρAΔ)ρAΔ
[6] Y:[]←AΔ[]I0;]
[7] AΔ←1 0↓AΔ
[8] →Y[ι0<1↑ρAΔ
[9] →1
[10] X:[]←AΔ
[11] →1
∇

YYI [34 by 1 array of type char; element size 8 byte(s)]
81000000074101B5 78820600002D1F1D 3D003D00032E3D1F 1C2D3C341F27501E
140419164205560F 1A6C6C6C6C022818 36246C6C6C061315 1B88836C87011722
11001D1223071C0E 556C6C6C6C03201F 1009210C34080B0D 4B82846C6C27523F
592B3E26432C5849 386C6C6C6C295C48 37636C6C6C2D4A5B 4088836C87643C62
5D313B25452E4C3A 576C6C6C6C2A6146 0A305F47352F5E60 5182846C6C000000
08CFC8C708C308CF C84300DFE0C700CF D88248CF0843004B 444788C328533023
2853000338030043 3A03387338422003 3803205B3803301B 2803202BC84300DF
584B08CFF8C788FF E84308CF68C7ECCF FCCFC8FFEC4308DF FC47CCDF00030003
0001200300032003 2001204300010003

YY0 [18 by 1 array of type char; element size 8 byte(s)]
41000000074101B5 7882060000801F1D 3D003D00032E3D1F 1C80808080242010
3004081828383473 39363A2A0A332326 19031A062112050B 1B29250232313522
2714664600115070 4448586878746482 82377713534B826A 65618245425B8207
4782677276524A59 3B69828282017B41 82822B096B494382 5A516379757A7162
5460828282827F82 8282000000000000

NAMES IN GROUP 50:

CW N PLT YAV XAV CIR PLO DEL YAX EQU SQ XAX
CEN

CW [2 by 102 numeric array; element size 2 byte(s)]

360 0
460 10
500 22
530 34
554 46
576 56
592 68
608 80
622 92
636 102
648 114
658 126
666 138
674 148
682 160
688 172
694 184
700 194
704 206
708 218
712 230
714 240
716 252
718 264
718 276
720 288
718 298
718 310
716 322
714 334
712 344
708 356
704 368
700 380
694 390
688 402
682 414
674 426
666 436
658 448
648 460

636 472
622 482
608 494
592 506
576 518
554 528
530 540
500 552
460 564
360 576
360 0
258 10
218 22
188 34
164 46
144 56
126 68
110 80
96 92
82 102
72 114
60 126
52 138
44 148
36 160
30 172
24 184
18 194
14 206
10 218
6 230
4 240
2 252
0 264
0 276
0 288
0 298
0 310
2 322
4 334
6 344
10 356
14 368
18 380
24 390
30 402
36 414
44 426
52 436
60 448
72 460
82 472
96 482
110 494
126 506
144 518

164 528
188 540
218 552
258 564
360 576

N [2 by 20 numeric array; element size 8 byte(s)]

CE0000000000000004 C041A41A41A41A20
CE0000000000000003 C058469EE5846A00
CE0000000000000002 C086BCA1AF286BE0
CE0000000000000001 C111C71C71C71C70
4E0000000000000000 4E00000000000000A
4E0000000000000001 40E8BA2E8BA2E8C0
4E0000000000000002 4079E79E79E79EC0
4E0000000000000003 405294A5294A5280
4E0000000000000004 403E7063E7063E78
4E0000000000000005 4032323232323230
4E0000000000000006 4029F79B47582198
4E0000000000000007 40240E6C2B4481C0
4E0000000000000008 401F9ADD3C0CA458
4E0000000000000009 401C21C21C21C20C
4E000000000000000A 401958B67EBB9080
4E000000000000000B 40171024E6A17100
4E000000000000000C 40152832C6E043AC
4E000000000000000D 40138ABF82EE6988
4E000000000000000E 401227F179A5384C
4E000000000000000F 4010F421E843D080

PLT [4 by 65 array of type char; element size 2 byte(s)]

F4EB 0668 2D06 4E84
F815 0600 8BF8 46C8
003C 0340 AC0B 46AD
0028 0638 2D1E 2026
210E 3F46 5300 2E21
3633 C753 453C 4248
5720 4621 2046 AD00
0688 2D1E 2026 210E
B046 5300 46E0 07B0
2B2E 00F5 3D3D 4657
0868 9D20 1640 4659
2046 5708 1688 6859
2046 5920 4621 2044
8A22 071A 1C13 181E
0F1C 1513 1820 0B16
130E 2719 1F1E 1A1F
1E27 0E0F 2013 0D0F
2E20 3614 C73C 6C60
2D20 0627 D046 AD00
2806 772D C22D C7B0
504E 20D0 46AD 0028
06E3 2DC2 247F 2DC7
464E 2015 C7D0 46A9
20C2 0257 0620 5507
3525 3525 3D46 8B20

3DC6 94F0 C59B E840
7620 C22C 08D0 A896
F006 009D E846 A920
C657 C524 07B2 5507
C0C0 C0C0 C0C0 C0C0
C0C0 2E20 3600 C7B0
70A3 2036 08C7 24FE
31EF F007 06E0 5544
BB0B 06E0 5544 BB0B
45C8 2403 2C01 44B9
20C0 C0C0 C0C0 C0C0
48C5 20C1 24E0 3CE0
2B44 A920 06E0 5546
AD00 066A 2D44 C40B
45C8 2403 2C01 484E
20C1 24E0 3CE0 4821
2046 FF09 2E20 3614
D048 4020 3E59 0725
2E21 362C C7B0 484B
2011 25FA 0746 AD00
066A 2D44 C40B 46AD
0006 722D 44C4 0B30
3132 3334 3536 3738
3946 6162 6364 6566
6768 696A 6B6C 6D6E
6F70 7172 7374 7576
7778 797A 484C 202E
4023 2425 5E26 2A28
2900 822D 5F3D 2B50
8444 534D 864F 5451
882F 3F8A 5955 424E
4549 2C52 8C8E 905B
3C5D 9294 3B27 3A22
4A96 4B3E 4741 5743
5658 5A21 989A 9C9E
3EB0 A028 5429 5450
4F2E 4B2F 5F3F 5F4F
4D4F 5F4F 3F48 4D47
4D43 4A42 4A2C 5F4C
2B4C 4B4E 4A4B 4E4A

YAV [2 by 172 numeric array; element size 2 byte(s)]

0 2040
0 2028
0 2016
0 2004
0 1992
0 1980
0 1968
0 1956
0 1944
0 1932
0 1920
0 1908
0 1896

0 1884
0 1872
0 1860
0 1848
0 1836
0 1824
0 1812
0 1800
0 1788
0 1776
0 1764
0 1752
0 1740
0 1728
0 1716
0 1704
0 1692
0 1680
0 1668
0 1656
0 1644
0 1632
0 1620
0 1608
0 1596
0 1584
0 1572
0 1560
0 1548
0 1536
0 1524
0 1512
0 1500
0 1488
0 1476
0 1464
0 1452
0 1440
0 1428
0 1416
0 1404
0 1392
0 1380
0 1368
0 1356
0 1344
0 1332
0 1320
0 1308
0 1296
0 1284
0 1272
0 1260
0 1248
0 1236
0 1224

0 1212
0 1200
0 1188
0 1176
0 1164
0 1152
0 1140
0 1128
0 1116
0 1104
0 1092
0 1080
0 1068
0 1056
0 1044
0 1032
0 1020
0 1008
0 996
0 984
0 972
0 960
0 948
0 936
0 924
0 912
0 900
0 888
0 876
0 864
0 852
0 840
0 828
0 816
0 804
0 792
0 780
0 768
0 756
0 744
0 732
0 720
0 708
0 696
0 684
0 672
0 660
0 648
0 636
0 624
0 612
0 600
0 588
0 576
0 564
0 552

0 540
0 528
0 516
0 504
0 492
0 480
0 468
0 456
0 444
0 432
0 420
0 408
0 396
0 384
0 372
0 360
0 348
0 336
0 324
0 312
0 300
0 288
0 276
0 264
0 252
0 240
0 228
0 216
0 204
0 192
0 180
0 168
0 156
0 144
0 132
0 120
0 108
0 96
0 84
0 72
0 60
0 48
0 36
0 24
0 12
0 0
0 0

XAV [2 by 255 numeric array; element size 2 byte(s)]
1518 0
1512 0
1506 0
1500 0
1494 0
1488 0

1482 0
1476 0
1470 0
1464 0
1458 0
1452 0
1446 0
1440 0
1434 0
1428 0
1422 0
1416 0
1410 0
1404 0
1398 0
1392 0
1386 0
1380 0
1374 0
1368 0
1362 0
1356 0
1350 0
1344 0
1338 0
1332 0
1326 0
1320 0
1314 0
1308 0
1302 0
1296 0
1290 0
1284 0
1278 0
1272 0
1266 0
1260 0
1254 0
1248 0
1242 0
1236 0
1230 0
1224 0
1218 0
1212 0
1206 0
1200 0
1194 0
1188 0
1182 0
1176 0
1170 0
1164 0
1158 0
1152 0

1146 0
1140 0
1134 0
1128 0
1122 0
1116 0
1110 0
1104 0
1098 0
1092 0
1086 0
1080 0
1074 0
1068 0
1062 0
1056 0
1050 0
1044 0
1038 0
1032 0
1026 0
1020 0
1014 0
1008 0
1002 0
996 0
990 0
984 0
978 0
972 0
966 0
960 0
954 0
948 0
942 0
936 0
930 0
924 0
918 0
912 0
906 0
900 0
894 0
888 0
882 0
876 0
870 0
864 0
858 0
852 0
846 0
840 0
834 0
828 0
822 0
816 0

810 0
804 0
798 0
792 0
786 0
780 0
774 0
768 0
762 0
756 0
750 0
744 0
738 0
732 0
726 0
720 0
714 0
708 0
702 0
696 0
690 0
684 0
678 0
672 0
666 0
660 0
654 0
648 0
642 0
636 0
630 0
624 0
618 0
612 0
606 0
600 0
594 0
588 0
582 0
576 0
570 0
564 0
558 0
552 0
546 0
540 0
534 0
528 0
522 0
516 0
510 0
504 0
498 0
492 0
486 0
480 0

474 0
468 0
462 0
456 0
450 0
444 0
438 0
432 0
426 0
420 0
414 0
408 0
402 0
396 0
390 0
384 0
378 0
372 0
366 0
360 0
354 0
348 0
342 0
336 0
330 0
324 0
318 0
312 0
306 0
300 0
294 0
288 0
282 0
276 0
270 0
264 0
258 0
252 0
246 0
240 0
234 0
228 0
222 0
216 0
210 0
204 0
198 0
192 0
186 0
180 0
174 0
168 0
162 0
156 0
150 0
144 0

138 0
132 0
126 0
120 0
114 0
108 0
102 0
96 0
90 0
84 0
78 0
72 0
66 0
60 0
54 0
48 0
42 0
36 0
30 0
24 0
18 0
12 0
6 0
0 0
0 0

CIR [2 by 102 numeric array; element size 8 byte(s)]

4E00000000000000 CE000000000000005
4116666666666666A C14CCCCCCCCCCCCD
411F5A7CECDB684D C149999999999999A
4125FF7606911A01 C1466666666666666
412B682B60B48038 C1433333333333333
41300000000000001 CE000000000000004
4133FE6CAD7BE68E C13CCCCCCCCCCCCC
41378496BC27AEBF C1399999999999999
413AA82F1D1061AB C1366666666666666
413D785170B330CE C1333333333333333
41400000000000002 C12FFFFFFFFFFFFFFF
4142478751E1C4D3 C12CCCCCCCCCCCCC
4144555333BB911D C1299999999999999
41462E7569064E48 C1266666666666666
4147D6FE902D64B4 C1233333333333332
4149523AE4547A0D C11FFFFFFFFFFFFFFF
414AA2DCF8A53ECF C11CCCCCCCCCCCCC
414BCB1C7C5523DB C1199999999999999
414CCCCCCCCCCCCC4 C1166666666666665
414DA96DC242DA3E C1133333333333332
414E6238502484BB C0FFFFFFFFFFFFFFF0
414EF8280D59523A C0CCCCCCCCCCCCC0
414F6C026196CEF6 C0999999999999980
414FBE5BDAAD8026 C0666666666666650
414FEF9C0455D81E C0333333333333320
4E000000000000005 34100000000000000
414FEF9C0455D81E 40333333333333350
414FBE5BDAAD8026 40666666666666680

414F6C026196CEF6 4099999999999999B0
414EF8280D59523A 40CCCCCCCCCCCCCE0
414E6238502484BB 411000000000000002
414DA96DC242DA3A 411333333333333335
414CCCCCCCCCCCCC4 411666666666666668
414BCB1C7C5523DB 41199999999999999B
414AA2DCF8A53ECF 411CCCCCCCCCCCCCF
4149523AE4547A0D 412000000000000002
4147D6FE902D64B2 412333333333333335
41462E7569064E40 412666666666666668
4144555333BB9119 41299999999999999C
4142478751E1C4D1 412CCCCCCCCCCCCCF
413FFFFFFFFFFFFFFF 413000000000000002
413D785170B330CC 413333333333333335
413AA82F1D1061A8 413666666666666669
41378496BC27AE8B 41399999999999999C
4133FE6CAD7BE68A 413CCCCCCCCCCCCCF
412FFFFFFFFFFFFFFE 414000000000000002
412B682B60B48035 414333333333333336
4125FF76069119FC 414666666666666669
411F5A7CECDB6848 41499999999999999C
41166666666666665F 414CCCCCCCCCCCCCF
4E000000000000000 4E0000000000000005
4E000000000000000 CE0000000000000005
C116666666666666A C14CCCCCCCCCCCCCD
C11F5A7CECDB684D C1499999999999999A
C125FF7606911A01 C14666666666666666
C12B682B60B48038 C14333333333333333
C13000000000000001 CE0000000000000004
C133FE6CAD7BE68E C13CCCCCCCCCCCCCC
C1378496BC27AE8B C13999999999999999
C13AA82F1D1061AB C13666666666666666
C13D785170B330CE C13333333333333333
C14000000000000002 C12FFFFFFFFFFFFFFF
C142478751E1C4D3 C12CCCCCCCCCCCCCC
C144555333BB911D C12999999999999999
C1462E7569064E48 C12666666666666666
C147D6FE902D64B4 C12333333333333332
C149523AE4547A0D C11FFFFFFFFFFFFFFF
C14AA2DCF8A53ECF C11CCCCCCCCCCCCCC
C14BCB1C7C5523DB C11999999999999999
C14CCCCCCCCCCCCC4 C11666666666666665
C14DA96DC242DA3E C11333333333333332
C14E6238502484BB C0FFFFFFFFFFFFFFF0
C14EF8280D59523A C0CCCCCCCCCCCCC0
C14F6C026196CEF6 C09999999999999980
C14FBE5BDAAD8026 C06666666666666650
C14FEF9C0455D81E C0333333333333320
CE000000000000005 34100000000000000
C14FEF9C0455D81E 40333333333333350
C14FBE5BDAAD8026 406666666666666680
C14F6C026196CEF6 4099999999999999B0
C14EF8280D59523A 40CCCCCCCCCCCCCE0
C14E6238502484BB 411000000000000002
C14DA96DC242DA3A 411333333333333335
C14CCCCCCCCCCCCC4 411666666666666668

```

C14BCB1C7C5523DB 4119999999999999B
C14AA2DCF8A53ECF 411CCCCCCCCCCCCCF
C149523AE4547A0D 41200000000000002
C147D6FE902D64B2 41233333333333335
C1462E7569064E40 41266666666666668
C144555333BB9119 4129999999999999C
C142478751E1C4D1 412CCCCCCCCCCCCCF
C13FFFFFFFFFFFFFFF 41300000000000002
C13D785170B330CC 41333333333333335
C13AA82F1D1061A8 41366666666666669
C1378496BC27AEBB 4139999999999999C
C133FE6CAD7BE68A 413CCCCCCCCCCCCCF
C12FFFFFFFFFFFFFFE 41400000000000002
C12B682B60B48035 41433333333333336
C125FF76069119FC 41466666666666669
C11F5A7CECDB6848 4149999999999999C
C116666666666665F 414CCCCCCCCCCCCCF
4E00000000000000 4E000000000000005

```

∇PLOT W;C;S;TX;TY;A

```

[1] C←18↓19□'PLOT CHARACTER(S): ° '
[2] S←22↓□'WIDTH,HEIGHT (INCHES): '
[3] TX←14↓□'X AXIS TITLE: '
[4] TY←((ρTY),1)ρTY←14↓□'Y AXIS TITLE: '
[5] A←1↑□OUT 1°'□YA 66'
[6] ' 'DEL 24 0°□←(1↓S)CENTRE TY
[7] W←W-(ρW)ρ|≠W←W-2|W←|W×(ρW)ρS×120 96÷(|≠W)-|≠W
[8] XAX 1↑S°YAX 1↓S
[9] C DEL W,0
[10] □←(1↑S)CENTRE TX°□←' '
[11] °□OU A,224°'RESET'

```

∇

∇C DEL A

```

[1] A □ZZ[C]PLT 0
[2] →2[1241≠1↑□OU10°'WAIT'

```

∇

∇YAX N

```

[1] →0°'|'DEL (-N°→(v/(ρYAV)<N←2+[8×N,0])/2)↑YAV
[2] 'RANGE ERROR'
[3] →

```

∇

∇ΔR←EQU

```

[1] ΔX←9↓□'EQUATION: '
[2] ΔR←29↓□'DEFINE INDEPENDENT VARIABLE: '
[3] ΔR←(((ρΔR),1)ρΔX),((ρΔR),1)ρΔR

```

∇

NAMES IN GROUP 51:

PLO DEL AXE PLT CIR CW

∇S PLOT W;C;L;O;H;YY;YA;XA;YX;VV;V

```
[1] C←1↑15'PLOT CHARACTER:°'°I0←0
[2] L←1↑ρW°I0←0←H←0°OUT 1°PW←132
[3] W←W-2|W←|W×(L,2)ρS×120 96÷( [≠W) - [≠W
[4] YA←AXE W[;0]°XA←4+AXE W[;1]
[5] VV←V←[/(W←W-(L,2)ρ [≠W) [;1]
[6] YA←YA-2|YA°→NYA [10>YA
[7] [←YY←(( [6×S [1]),1)ρ'|'°[←'Y'°DEL YA,V
[8] °OUT 1,72+|YA÷256°B0 256|YA←YA+6°[←YY°DEL 0,V-4
[9] NYA:XA←XA-2|XA°→LOOP [10>XA
[10] [←'X'°DEL (V←4+[ /W [;0]),XA
[11] °OUT 1,72+|V÷256°B0 256|V←0 [V←V-2|V+4
[12] YX←[←( [10×S [0])ρ'-'°DEL 0,16
[13] °OUT 1,128+|XA÷256°B0 256|XA←0 [XA-20°[←YX°DEL 6,16
[14] LOOP:DEL W,0
```

∇

∇DEL A

```
[1] A [ZZ[C]PLT
[2] →2 [1241≠1↑ [OU10
```

∇

∇R←AXE B;HV;LV

```
[1] R←1°→10≥LV×[ /B°R←|LV←[ /B
```

∇

PLT [4 by 65 array of type char; element size 2 byte(s)]

```
F4EB 0668 2D06 4E84
F815 0600 8BF8 46C8
003C 0340 AC0B 46AD
0028 0638 2D1E 2026
210E 3F46 5300 2E21
3633 C753 453C 4248
5720 4621 2046 AD00
0688 2D1E 2026 210E
B046 5300 46E0 07B0
2B2E 00F5 3D3D 4657
0868 9D20 1640 4659
2046 5708 1688 6859
2046 5920 4621 2044
8A22 071A 1C13 181E
0F1C 1513 1820 0B16
130E 2719 1F1E 1A1F
1E27 0E0F 2013 0D0F
2E20 3614 C73C 6C60
2D20 0627 D046 AD00
2806 772D C22D C7B0
504E 20D0 46AD 0028
```

06E3 2DC2 247F 2DC7
464E 2015 C7D0 46A9
20C2 0257 0620 5507
3525 3525 3D46 8B20
3DC6 94F0 C59B E840
7620 C22C 08D0 A896
F006 009D E846 A920
C657 C524 07B2 5507
C0C0 C0C0 C0C0 C0C0
C0C0 2E20 3600 C7B0
70A3 2036 08C7 24FE
31EF F007 06E0 5544
BB0B 06E0 5544 BB0B
45C8 2403 2C01 44B9
20C0 C0C0 C0C0 C0C0
48C5 20C1 24E0 3CE0
2B44 A920 06E0 5546
AD00 066A 2D44 C40B
45C8 2403 2C01 484E
20C1 24E0 3CE0 4821
2046 FF09 2E20 3614
D048 4020 3E59 0725
2E21 362C C7B0 484B
2011 25FA 0746 AD00
066A 2D44 C40B 46AD
0006 722D 44C4 0B30
3132 3334 3536 3738
3946 6162 6364 6566
6768 696A 6B6C 6D6E
6F70 7172 7374 7576
7778 797A 484C 202E
4023 2425 5E26 2A28
2900 822D 5F3D 2B50
8444 534D 864F 5451
882F 3F8A 5955 424E
4549 2C52 8C8E 905B
3C5D 9294 3B27 3A22
4A96 4B3E 4741 5743
5658 5A21 989A 9C9E
3EB0 A028 5429 5450
4F2E 4B2F 5F3F 5F4F
4D4F 5F4F 3F48 4D47
4D43 4A42 4A2C 5F4C
2B4C 4B4E 4A4B 4E4A

CIR [2 by 102 numeric array; element size 8 byte(s)]

4E00000000000000 CE00000000000005
4116666666666666A C14CCCCCCCCCCCCD
411F5A7CECDB684D C149999999999999A
4125FF7606911A01 C1466666666666666
412B682B60B48038 C1433333333333333
41300000000000001 CE00000000000004
4133FE6CAD7BE68E C13CCCCCCCCCCCCC
41378496BC27AEBF C1399999999999999
413AA82F1D1061AB C1366666666666666

413D785170B330CE C13333333333333333
41400000000000002 C12FFFFFFFFFFFFFFF
4142478751E1C4D3 C12CCCCCCCCCCCCC
4144555333BB911D C1299999999999999
41462E7569064E48 C1266666666666666
4147D6FE902D64B4 C1233333333333332
4149523AE4547A0D C11FFFFFFFFFFFFFFF
414AA2DCF8A53ECF C11CCCCCCCCCCCCC
414BCB1C7C5523DB C1199999999999999
414CCCCCCCCCCCCC4 C1166666666666665
414DA96DC242DA3E C1133333333333332
414E6238502484BB C0FFFFFFFFFFFFFFF0
414EF8280D59523A C0CCCCCCCCCCCCC0
414F6C026196CEF6 C0999999999999980
414FBE5BDAAD8026 C0666666666666650
414FEF9C0455D81E C0333333333333320
4E000000000000005 34100000000000000
414FEF9C0455D81E 40333333333333350
414FBE5BDAAD8026 40666666666666680
414F6C026196CEF6 409999999999999B0
414EF8280D59523A 40CCCCCCCCCCCCCE0
414E6238502484BB 41100000000000002
414DA96DC242DA3A 41133333333333335
414CCCCCCCCCCCCC4 41166666666666668
414BCB1C7C5523DB 4119999999999999B
414AA2DCF8A53ECF 411CCCCCCCCCCCCCF
4149523AE4547A0D 41200000000000002
4147D6FE902D64B2 41233333333333335
41462E7569064E40 41266666666666668
4144555333BB9119 4129999999999999C
4142478751E1C4D1 412CCCCCCCCCCCCCF
413FFFFFFFFFFFFFFF 41300000000000002
413D785170B330CC 41333333333333335
413AA82F1D1061A8 41366666666666669
41378496BC27AE6B 4139999999999999C
4133FE6CAD7BE68A 413CCCCCCCCCCCCCF
412FFFFFFFFFFFFFFF 41400000000000002
412B682B60B48035 41433333333333336
4125FF76069119FC 41466666666666669
411F5A7CECDB6848 4149999999999999C
4116666666666665F 414CCCCCCCCCCCCCF
4E000000000000000 4E000000000000005
4E000000000000000 CE000000000000005
C116666666666666A C14CCCCCCCCCCCCCD
C11F5A7CECDB684D C149999999999999A
C125FF7606911A01 C1466666666666666
C12B682B60B48038 C1433333333333333
C1300000000000001 CE000000000000004
C133FE6CAD7BE68E C13CCCCCCCCCCCCC
C1378496BC27AE6B C1399999999999999
C13AA82F1D1061AB C1366666666666666
C13D785170B330CE C1333333333333333
C1400000000000002 C12FFFFFFFFFFFFFFF
C142478751E1C4D3 C12CCCCCCCCCCCCC
C144555333BB911D C1299999999999999
C1462E7569064E48 C1266666666666666

C147D6FE902D64B4 C123333333333332
C149523AE4547A0D C11FFFFFFFFFFFFFFF
C14AA2DCF8A53ECF C11CCCCCCCCCCCCC
C14BCB1C7C5523DB C119999999999999
C14CCCCCCCCCCCCC4 C116666666666665
C14DA96DC242DA3E C113333333333332
C14E6238502484BB C0FFFFFFFFFFFFFFF0
C14EF8280D59523A C0CCCCCCCCCCCCC0
C14F6C026196CEF6 C099999999999980
C14FBE5BDAAD8026 C066666666666650
C14FEF9C0455D81E C033333333333320
CE00000000000005 3410000000000000
C14FEF9C0455D81E 4033333333333350
C14FBE5BDAAD8026 4066666666666680
C14F6C026196CEF6 40999999999999B0
C14EF8280D59523A 40CCCCCCCCCCCCCE0
C14E6238502484BB 41100000000000002
C14DA96DC242DA3A 4113333333333335
C14CCCCCCCCCCCCC4 4116666666666668
C14BCB1C7C5523DB 411999999999999B
C14AA2DCF8A53ECF 411CCCCCCCCCCCCCF
C149523AE4547A0D 41200000000000002
C147D6FE902D64B2 4123333333333335
C1462E7569064E40 4126666666666668
C144555333BB9119 412999999999999C
C142478751E1C4D1 412CCCCCCCCCCCCCF
C13FFFFFFFFFFFFFFF 41300000000000002
C13D785170B330CC 4133333333333335
C13AA82F1D1061A8 4136666666666669
C1378496BC27AE6B 413999999999999C
C133FE6CAD7BE68A 413CCCCCCCCCCCCCF
C12FFFFFFFFFFFFFFF 41400000000000002
C12B682B60B48035 4143333333333336
C125FF76069119FC 4146666666666669
C11F5A7CECDB6848 414999999999999C
C11666666666665F 414CCCCCCCCCCCCCF
4E00000000000000 4E00000000000005

CW [2 by 102 numeric array; element size 2 byte(s)]
360 0
460 10
500 22
530 34
554 46
576 56
592 68
608 80
622 92
636 102
648 114
658 126
666 138
674 148
682 160
688 172

694 184
700 194
704 206
708 218
712 230
714 240
716 252
718 264
718 276
720 288
718 298
718 310
716 322
714 334
712 344
708 356
704 368
700 380
694 390
688 402
682 414
674 426
666 436
658 448
648 460
636 472
622 482
608 494
592 506
576 518
554 528
530 540
500 552
460 564
360 576
360 0
258 10
218 22
188 34
164 46
144 56
126 68
110 80
96 92
82 102
72 114
60 126
52 138
44 148
36 160
30 172
24 184
18 194
14 206
10 218
6 230

4 240
 2 252
 0 264
 0 276
 0 288
 0 298
 0 310
 2 322
 4 334
 6 344
 10 356
 14 368
 18 380
 24 390
 30 402
 36 414
 44 426
 52 436
 60 448
 72 460
 82 472
 96 482
 110 494
 126 506
 144 518
 164 528
 188 540
 218 552
 258 564
 360 576

NAMES IN GROUP 100:

RES COM F CAR FF PRI

∇RESTORE

[1] °□0U (1↑□0U10),224
∇

∇C COM D

[1] °□0U (1↑□0U10),8 32⊥C,1↑D°□B0 1↓D←32 256T[2×D
∇

∇F;X

[1] →1°⊥((~'←'∈X)/'□←''''°□←'),X°□←''°□←' ',X°→(0=ρX←□'')/1
∇

∇CAR N

[1] 2 COM (1024*N<0)+60×|N
∇

∇FF N

[1] 4 COM(1024*N<0)+48*|N

∇

∇PRI N

[1] 1 COM N

∇

NAMES IN GROUP 101:

SIZ TIT SST GXN SGL PEO TOT ADV COS F

∇SIZE

[1] L←23↓□←□'ENTER NUMBER OF LANES: '

[2] S←23↓□←□'ENTER NUMBER OF STEPS: '

∇

∇TITLES;LI;X

[1] @ESTABLISH TITLES FOR LANES

[2] □←'ENTER LANE TITLES.'◦LI←1◦LT←(1+L,9)ρ' '

[3] L0:LT[LI;↑ρX]←X←9↓□←□'LANE ',(2◦LI),': '

[4] →(L≥LI←LI+1)/L0

[5] LT[LI;]←'STEP TOTAL'

∇

∇SAX←SST;ACR;DOW;STA

[1] @ESTABLISH SALARY MATRIX VIA INCREMENTS

[2] STA←27↓□←□'ENTER LANE 1-STEP 1 VALUE: '

[3] ACR←φ+∖φLρ0, 23↓□←□'INCREMENTS ACROSS IN \$ '

[4] DOW←φ+∖φSp0, 21↓□←□'INCREMENTS DOWN IN \$ '

[5] @COMPUTE SALARY MATRIX

[6] SAX←STA+DOW◦.+ACR

∇

∇R←GXN;X;LI

[1] @FILL ARRAYS LANE BY LANE

[2] R←(S,L)ρ0◦LI←1◦X←''

[3] L0:→(S<ρX←29↓□←10□'LANE ',(2◦LI),': ',X)/ER

[4] R[↑ρX;LI]←X

[5] →(L≥(LI←LI+1),0)/L0,0◦X←''

[6] ER:→L0◦□←'LANE TOO LONG, ENTER AGAIN.'◦X←◦X

∇

∇SAX←SGL

[1] @ESTABLISH SALARY MATRIX ELEMENT BY ELEMENT

[2] □←'ENTER SALARY MATRIX.'

[3] SAX←GXN

∇

∇PEX←PEO

- [1] □←'ENTER PEOPLE MATRIX.'
- [2] ⓂELEMENT BY ELEMENT
- [3] PEX←GXN

∇

∇SAX TOTAL PEX

- [1] ⓂTOTAL SALARY, ALL CATAGORIES
- [2] □←'TOTAL COST = \$',10 2 0Ⓜ+/+/PEX×SAX

∇

∇R←ADVANCE PEX;T 1

- [1] ⓂADD PEOPLE IN SECOND LAST ROW TO LAST ROW
- [2] R[T;]←R[T←S-1;]+R[S;]ⓂR←PEX
- [3] ⓂDELETE LAST ROW
- [4] R←((Tp1),0)∓R
- [5] ⓂADD ZERO FIRST ROW
- [6] R←(0,Tp1)∓R

∇

∇SAX COST PEX;C;KT;A;PX

- [1] □←' TOTAL COST WITH MARGINALS.'
- [2] C←C,(S,1)ρA←+/C←PEX×SAX
- [3] KT←1Ⓜ□←''Ⓜ□←(11ρ' '),,LTⓂ□←''
- [4] L0:□←'STEP ',(4ⓂKT),': ',10 2 0ⓂC[KT;]
- [5] →((KT←KT+1)≤1↑ρC)/L0
- [6] □←(11+10×L+1)ρ' '-'
- [7] □←'TOTAL : ',10 2 0Ⓜ+∓C

∇

∇F

- [1] →1Ⓜ□←' ',□←''Ⓜ□←''

∇