





```

\      T(6):          CONDITION #
\      T(7):          #error for data analysis
\      T(10):         USED FOR MAGAZINE LIST
\      T(11):         PLACEHOLDER for the # error per bin

```

```

\ speed test criterion variables:

```

```

\      T(12) - time for current bin
\      T(13) - number of successive "successful" bins (5 chains in criterion time)
\      T(14) - number of chains in current bin
\      t(15) - flag for 10 strobe chains completed

\      T(16) - delay time
\      t(17) - counting number of chains to reach criterion and so for training in delay phase
\      t(18) - flag for strobing

```

```

^bintime=100 \ set the time allowed for 5 chains here (s)

```

```

\*****

```

```

\      B:          Array for BINS
\      DIM B = 100
\      B(0):       Timer for BINS
\      B(1):       CURRENT Bin Number
\      B(2):       BIN MINUTE
\      B(3):       BIN 1 CORRECT
\      B(4):       BIN 1 INCORRECT
\      B(5):       BIN 2 CORRECT
\      B(6):       BIN 2 INCORRECT
\      B(7):       BIN 3 CORRECT
\      B(8):       BIN 3 INCORRECT
\      B(9):       BIN 4 CORRECT
\      B(10):      BIN 4 INCORRECT
\      B(11):      BIN 5 CORRECT
\      B(12):      BIN 5 INCORRECT
\      B(13):      BIN 6 CORRECT
\      B(14):      BIN 6 INCORRECT
\      B(15):      BIN 7 CORRECT
\      B(16):      BIN 7 INCORRECT
\      B(17):      BIN 8 CORRECT
\      B(18):      BIN 8 INCORRECT
\      B(19):      BIN 9 CORRECT
\      B(20):      BIN 9 INCORRECT
\      B(21):      BIN 10 CORRECT
\      B(22):      BIN 10 INCORRECT
\      B(23):      BIN 11 CORRECT
\      B(24):      BIN 11 INCORRECT
\      B(25):      BIN 12 CORRECT
\      B(26):      BIN 12 INCORRECT
\      B(27):      BIN 13 CORRECT
\      B(28):      BIN 13 INCORRECT
\      B(29):      BIN 14 CORRECT
\      B(30):      BIN 14 INCORRECT
\      B(31):      BIN 15 CORRECT
\      B(32):      BIN 15 INCORRECT
\      B(33):      BIN 16 CORRECT
\      B(34):      BIN 16 INCORRECT
\      B(35):      BIN 17 CORRECT
\      B(36):      BIN 17 INCORRECT
\      B(37):      BIN 18 CORRECT
\      B(38):      BIN 18 INCORRECT
\      B(39):      BIN 19 CORRECT
\      B(40):      BIN 19 INCORRECT
\      B(41):      BIN 20 CORRECT
\      B(42):      BIN 20 INCORRECT
\      B(43):      BIN 21 CORRECT
\      B(44):      BIN 21 INCORRECT
\      B(45):      BIN 22 CORRECT
\      B(46):      BIN 22 INCORRECT
\      B(47):      BIN 23 CORRECT
\      B(48):      BIN 23 INCORRECT

```

```

\      B(49):          BIN 24 CORRECT
\      B(50):          BIN 24 INCORRECT
\      B(51):          BIN 25 CORRECT
\      B(52):          BIN 25 INCORRECT
\      B(53):          BIN 26 CORRECT
\      B(54):          BIN 26 INCORRECT
\      B(55):          BIN 27 CORRECT
\      B(56):          BIN 27 INCORRECT
\      B(57):          BIN 28 CORRECT
\      B(58):          BIN 28 INCORRECT
\      B(59):          BIN 29 CORRECT
\      B(60):          BIN 29 INCORRECT
\      B(61):          BIN 30 CORRECT
\      B(62):          BIN 30 INCORRECT
\      B(63):          BIN 31 CORRECT
\      B(64):          BIN 31 INCORRECT
\      B(65):          BIN 32 CORRECT
\      B(66):          BIN 32 INCORRECT
\      B(67):          BIN 33 CORRECT
\      B(68):          BIN 33 INCORRECT
\      B(69):          BIN 34 CORRECT
\      B(70):          BIN 34 INCORRECT
\      B(71):          BIN 35 CORRECT
\      B(72):          BIN 35 INCORRECT
\      B(73):          BIN 36 CORRECT
\      B(74):          BIN 36 INCORRECT
\      B(75):          BIN 37 CORRECT
\      B(76):          BIN 37 INCORRECT
\      B(77):          BIN 38 CORRECT
\      B(78):          BIN 38 INCORRECT
\      B(77):          BIN 39 CORRECT
\      B(80):          BIN 39 INCORRECT
\      B(81):          BIN 40 CORRECT
\      B(82):          BIN 40 INCORRECT
\      B(83):          BIN 41 CORRECT
\      B(84):          BIN 41 INCORRECT
\      B(85):          BIN 42 CORRECT
\      B(86):          BIN 42 INCORRECT
\      B(87):          BIN 43 CORRECT
\      B(88):          BIN 43 INCORRECT
\      B(89):          BIN 44 CORRECT
\      B(90):          BIN 44 INCORRECT
\      B(91):          BIN 45 CORRECT
\      B(92):          BIN 45 INCORRECT
\      B(93):          Dump Bin

```

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===== Arrays for Operant Chamber Conditions=====

```

\      F: TimeStamp
\          DIM F = 9000
\      V: BlackOut condition
\          DIM V = 9000
\      C: ITI condition
\          DIM C = 9000
\      H: Key 1
\          DIM H = 9000
\      U: Key 2
\          DIM U = 9000
\      X: Key 3
\          DIM X = 9000
\      E: Magazine
\          DIM E = 9000

```

===== Arrays for Bird Behaviour=====

```

\      Y: Response Key 1
\          DIM Y = 9000
\      M: Response Key 2
\          DIM M = 9000
\      W: Response Key 3
\          DIM W = 9000

```

=====Data Analysis Arrays=====

```

\      DIM R = 9000
\      analyze within chain errors

```

```
*****
\
\ Z-PULSE INDEX
\
*****
```

```
\
\ Z1: Trial Start
\
\ Z2: BINS - CORRECT
\
\ Z3: ITI Begin
\
\ Z4: BINS - INCORRECT
```

```
*****
\
\ SHOWS INDEX
\
*****
```

```
\
\ LEFT COLUMN
\
\ SHOW 1: hen and animal #
\
\ SHOW 6:
\
\ SHOW 11:
\
\ SHOW 16:
\
\ SHOW 21:
\
\ SHOW 26:
\
\ SHOW 31:
\
\ SHOW 36:
\
\ SHOW 41:
\
\ SHOW 46:
\
\ SHOW 51:
\
\ SHOW 56:
\
\ SHOW 61:Elapsed Time
```

```
\
\ CENTER COLUMN
\
\ SHOW 2: # Response
\
\ SHOW 7:
\
\ SHOW 12:
\
\ SHOW 17:
\
\ SHOW 22: # Errors (Distractor KeyPecks)
\
\ SHOW 27:
\
\ SHOW 32: # Rfts
\
\ SHOW 37:
\
\ SHOW 42: # correct
\
\ SHOW 47:
\
\ SHOW 52:
\
\ SHOW 57:
\
\ SHOW 62:
```

```
\
\ RIGHT COLUMN
\
\ SHOW 3:
\
\ SHOW 8:
\
\ SHOW 13:
\
\ SHOW 18:
\
\ SHOW 23:
\
\ SHOW 28:
\
\ SHOW 33: BIN NUMBER
\
\ SHOW 38: BIN Timer
\
\ SHOW 43: Resp Latency
\
\ SHOW 48:
\
\ SHOW 53:
\
\ SHOW 58:
\
\ SHOW 63: Interresponse Time
```