```
ZEXP  FUNCTION RN1,C24
0,0/.1,.104/.2,.222/.3,.355/.4,.509/.5,.69/.6,.915/.7,1.2/.75,1.38
.8,1.6/.84,1.83/.88,2.12/.9,2.3/.92,2.52/.94,2.81/.95,2.99/.96,3.2
.97,3.5/.98,3.9/.99,4.6/.995,5.3/.998,6.2/.999,7/.9998,8
ZFN4  FUNCTION RN7,D8
0,20/.25,20/.251,60/.5,60/.501,80/.75,80/.751,100/1,100
ZFN5  FUNCTION RN4,C11
0,0/.125,3/.25,9/.375,14/.5,20/.625,39/.69,44/.75,50/.875,62/.95,80/1,100


T_HP1 TABLE M1,0,10,10
T_HP2 TABLE M1,0,3,20
T_MP1 TABLE M1,0,5,16
T_MP2 TABLE M1,0,5,12
T_LP1 TABLE M1,0,10,13
T_LP2 TABLE M1,0,5,11

         GENERATE 121,15,,,3
         TRANSFER ,PT_HP
         GENERATE 121,15,,,2
         TRANSFER ,PN_MP
         GENERATE 121,15,,,1

         QUEUE QLPR
         TRANSFER .25,LTR2,LP_D1
LTR2   TRANSFER .333,LTR3,LP_D2
LTR3   TRANSFER .5,LP_D3,LP_D4

PN_MP QUEUE QMPR
         TRANSFER .25,MTR2,MP_D1
MTR2   TRANSFER .333,MTR3,MP_D2
MTR3   TRANSFER .5,MP_D3,MP_D4

PT_HP QUEUE QHPR
         TRANSFER .25,HTR2,HP_D1
HTR2   TRANSFER .333,HTR3,HP_D2
HTR3   TRANSFER .5,HP_D3,HP_D4

LP_D1 SEIZE DEV1
         DEPART QLPR
         ADVANCE 55,11
         RELEASE DEV1
         TRANSFER ,TR_LP
LP_D2 SEIZE DEV2
         DEPART QLPR
         ADVANCE ,FN$ZFN4
         RELEASE DEV2
         TRANSFER ,TR_LP
LP_D3 SEIZE DEV3
         DEPART QLPR
         ADVANCE ,FN$ZFN5
```

```
          RELEASE DEV2
          TRANSFER ,TR_LP
LP_D3 SEIZE DEV3
          DEPART QLPR
          ADVANCE ,FN$ZFN5
          RELEASE DEV3
          TRANSFER ,TR_LP
LP_D4 SEIZE DEV4
          DEPART QLPR
          ADVANCE 45,FN$ZEXP
          RELEASE DEV4
          TRANSFER ,TR_LP

MP_D1 SEIZE DEV1
          DEPART QMPR
          ADVANCE 55,11
          RELEASE DEV1
          TRANSFER ,TR_MP
MP_D2 SEIZE DEV2
          DEPART QMPR
          ADVANCE ,FN$ZFN4
          RELEASE DEV2
          TRANSFER ,TR_MP
MP_D3 SEIZE DEV3
          DEPART QMPR
          ADVANCE ,FN$ZFN5
          RELEASE DEV3
          TRANSFER ,TR_MP
MP_D4 SEIZE DEV4
          DEPART QMPR
          ADVANCE 45,FN$ZEXP
          RELEASE DEV4
          TRANSFER ,TR_MP

HP_D1 SEIZE DEV1
          DEPART QHPR
          ADVANCE 55,11
          RELEASE DEV1
          TRANSFER ,TR_HP
HP_D2 SEIZE DEV2
          DEPART QHPR
          ADVANCE ,FN$ZFN4
          RELEASE DEV2
          TRANSFER ,TR_HP
HP_D3 SEIZE DEV3
          DEPART QHPR
          ADVANCE ,FN$ZFN5
          RELEASE DEV3
          TRANSFER ,TR_HP
```

```
HP_D3 SEIZE DEV3
      DEPART QHPR
      ADVANCE , FN$ZFN5
      RELEASE DEV3
      TRANSFER , TR_HP
HP_D4 SEIZE DEV4
      DEPART QHPR
      ADVANCE 45, FN$ZEXP
      RELEASE DEV4
      TRANSFER , TR_HP

TR_LP TRANSFER .23, L_T2, L_T1
L_T1  TABULATE T_LP1
      TRANSFER , OUTLP
L_T2  TABULATE T_LP2
      TRANSFER , OUTLP

TR_MP TRANSFER .23, M_T2, M_T1
M_T1  TABULATE T_MP1
      TRANSFER , OUTMP
M_T2  TABULATE T_MP2
      TRANSFER , OUTMP

TR_HP TRANSFER .23, H_T2, H_T1
H_T1  TABULATE T_HP1
      TRANSFER , OUTHP
H_T2  TABULATE T_HP2
      TRANSFER , OUTHP

OUTHP TERMINATE 1
OUTMP TERMINATE 1
OUTLP TERMINATE 1
      START 100
```

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Thursday, April 06, 2023 14:18:14

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	4043.704	95	4	0

NAME	VALUE
DEV1	10015.000
DEV2	10014.000
DEV3	10012.000
DEV4	10010.000
HP_D1	58.000
HP_D2	63.000
HP_D3	68.000
HP_D4	73.000
HTR2	16.000
HTR3	17.000
H_T1	89.000
H_T2	91.000
LP_D1	18.000
LP_D2	23.000
LP_D3	28.000
LP_D4	33.000
LTR2	8.000
LTR3	9.000
L_T1	79.000
L_T2	81.000
MP_D1	38.000
MP_D2	43.000
MP_D3	48.000
MP_D4	53.000
MTR2	12.000
MTR3	13.000
M_T1	84.000
M_T2	86.000
OUTHP	93.000
OUTLP	95.000
OUTMP	94.000
PN_MP	10.000
PT_HP	14.000
QHPR	10011.000
QLPR	10013.000
QMPR	10009.000
TR_HP	88.000
TR_LP	78.000
TR_MP	83.000
T_HP1	10003.000

		OUTMP	94.000
		PN_MP	10.000
		PT_HP	14.000
		QHPR	10011.000
		QLPR	10013.000
		QMPR	10009.000
		TR_HP	88.000
		TR_LP	78.000
		TR_MP	83.000
		T_HP1	10003.000
		T_HP2	10004.000
		T_LP1	10007.000
		T_LP2	10008.000
		T_MP1	10005.000
		T_MP2	10006.000
		ZEXP	10000.000
		ZFN4	10001.000
		ZFN5	10002.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
	1	GENERATE	34	0	0
	2	TRANSFER	34	0	0
	3	GENERATE	34	0	0
	4	TRANSFER	34	0	0
	5	GENERATE	33	0	0
	6	QUEUE	33	0	0
	7	TRANSFER	33	0	0
LTR2	8	TRANSFER	23	0	0
LTR3	9	TRANSFER	7	0	0
PN_MP	10	QUEUE	34	0	0
	11	TRANSFER	34	0	0
MTR2	12	TRANSFER	27	0	0
MTR3	13	TRANSFER	17	0	0
PT_HP	14	QUEUE	34	0	0
	15	TRANSFER	34	0	0
HTR2	16	TRANSFER	29	0	0
HTR3	17	TRANSFER	24	0	0
LP_D1	18	SEIZE	10	0	0
	19	DEPART	10	0	0
	20	ADVANCE	10	0	0
	21	RELEASE	10	0	0
	22	TRANSFER	10	0	0
LP_D2	23	SEIZE	16	0	0
	24	DEPART	16	0	0
	25	ADVANCE	16	0	0
	26	RELEASE	16	0	0
	27	TRANSFER	16	0	0
LP_D3	28	SEIZE	1	0	0
	29	DEPART	1	0	0
	30	ADVANCE	1	0	0
	31	RELEASE	1	0	0

LP_D3	28	SEIZE	1	0	0
	29	DEPART	1	0	0
	30	ADVANCE	1	0	0
	31	RELEASE	1	0	0
	32	TRANSFER	1	0	0
LP_D4	33	SEIZE	6	1	0
	34	DEPART	5	0	0
	35	ADVANCE	5	0	0
	36	RELEASE	5	0	0
	37	TRANSFER	5	0	0
MP_D1	38	SEIZE	7	0	0
	39	DEPART	7	0	0
	40	ADVANCE	7	0	0
	41	RELEASE	7	0	0
	42	TRANSFER	7	0	0
MP_D2	43	SEIZE	10	0	0
	44	DEPART	10	0	0
	45	ADVANCE	10	0	0
	46	RELEASE	10	0	0
	47	TRANSFER	10	0	0
MP_D3	48	SEIZE	5	0	0
	49	DEPART	5	0	0
	50	ADVANCE	5	0	0
	51	RELEASE	5	0	0
	52	TRANSFER	5	0	0
MP_D4	53	SEIZE	12	0	0
	54	DEPART	12	0	0
	55	ADVANCE	12	0	0
	56	RELEASE	12	0	0
	57	TRANSFER	12	0	0
HP_D1	58	SEIZE	5	0	0
	59	DEPART	5	0	0
	60	ADVANCE	5	0	0
	61	RELEASE	5	0	0
	62	TRANSFER	5	0	0
HP_D2	63	SEIZE	5	0	0
	64	DEPART	5	0	0
	65	ADVANCE	5	0	0
	66	RELEASE	5	0	0
	67	TRANSFER	5	0	0
HP_D3	68	SEIZE	12	0	0
	69	DEPART	12	0	0
	70	ADVANCE	12	0	0
	71	RELEASE	12	0	0
	72	TRANSFER	12	0	0
HP_D4	73	SEIZE	12	0	0
	74	DEPART	12	0	0
	75	ADVANCE	12	0	0
	76	RELEASE	12	0	0
	77	TRANSFER	12	0	0
TR_LP	78	TRANSFER	32	0	0
L_T1	79	TABULATE	8	0	0

	76	RELEASE	12	0	0
	77	TRANSFER	12	0	0
TR_LP	78	TRANSFER	32	0	0
L_T1	79	TABULATE	8	0	0
	80	TRANSFER	8	0	0
L_T2	81	TABULATE	24	0	0
	82	TRANSFER	24	0	0
TR_MP	83	TRANSFER	34	0	0
M_T1	84	TABULATE	13	0	0
	85	TRANSFER	13	0	0
M_T2	86	TABULATE	21	0	0
	87	TRANSFER	21	0	0
TR_HP	88	TRANSFER	34	0	0
H_T1	89	TABULATE	8	0	0
	90	TRANSFER	8	0	0
H_T2	91	TABULATE	26	0	0
	92	TRANSFER	26	0	0
OUTHP	93	TERMINATE	34	0	0
OUTMP	94	TERMINATE	34	0	0
OUTLP	95	TERMINATE	32	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
DEV4	30	0.341	46.020	1	101	0	0	0	0
DEV3	18	0.000	0.000	1	0	0	0	0	0
DEV2	31	0.000	0.000	1	0	0	0	0	0
DEV1	22	0.300	55.194	1	0	0	0	0	0

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
QMPR	1	0	34	29	0.035	4.113	27.967	0
QHPR	1	0	34	26	0.068	8.115	34.488	0
QLPR	2	1	33	28	0.064	7.872	51.953	0

TABLE	MEAN	STD.DEV.	RANGE			RETRY	FREQUENCY	CUM.%
T_HP1	39.985	68.875				0		
			_	-	0.000		5	62.50
			0.000	-	10.000		0	62.50
			10.000	-	20.000		0	62.50
			20.000	-	30.000		0	62.50
			30.000	-	40.000		0	62.50
			40.000	-	50.000		1	75.00
			50.000	-	60.000		0	75.00
			60.000	-	70.000		0	75.00
			70.000	-	80.000		0	75.00
			80.000	-	_		2	100.00
T_HP2	34.591	44.967				0		
			_	-	0.000		12	46.15
			0.000	-	3.000		1	50.00
			3.000	-	6.000		0	50.00
			6.000	-	9.000		0	50.00

			70.000	-	80.000		0	75.00
			80.000	-	_		2	100.00
T_HP2	34.591	44.967				0		
			_	-	0.000		12	46.15
			0.000	-	3.000		1	50.00
			3.000	-	6.000		0	50.00
			6.000	-	9.000		0	50.00
			9.000	-	12.000		0	50.00
			12.000	-	15.000		2	57.69
			15.000	-	18.000		0	57.69
			18.000	-	21.000		0	57.69
			21.000	-	24.000		0	57.69
			24.000	-	27.000		0	57.69
			27.000	-	30.000		1	61.54
			30.000	-	33.000		0	61.54
			33.000	-	36.000		0	61.54
			36.000	-	39.000		0	61.54
			39.000	-	42.000		0	61.54
			42.000	-	45.000		0	61.54
			45.000	-	48.000		0	61.54
			48.000	-	51.000		0	61.54
			51.000	-	54.000		0	61.54
			54.000	-	_		10	100.00
T_MP1	36.211	38.942				0		
			_	-	0.000		4	30.77
			0.000	-	5.000		2	46.15
			5.000	-	10.000		0	46.15
			10.000	-	15.000		1	53.85
			15.000	-	20.000		0	53.85
			20.000	-	25.000		0	53.85
			25.000	-	30.000		0	53.85
			30.000	-	35.000		0	53.85
			35.000	-	40.000		0	53.85
			40.000	-	45.000		1	61.54
			45.000	-	50.000		0	61.54
			50.000	-	55.000		0	61.54
			55.000	-	60.000		0	61.54
			60.000	-	65.000		0	61.54
			65.000	-	70.000		0	61.54
			70.000	-	_		5	100.00
T_MP2	27.334	42.631				0		
			_	-	0.000		11	52.38
			0.000	-	5.000		1	57.14
			5.000	-	10.000		0	57.14
			10.000	-	15.000		1	61.90
			15.000	-	20.000		0	61.90
			20.000	-	25.000		0	61.90
			25.000	-	30.000		1	66.67
			30.000	-	35.000		1	71.43
			35.000	-	40.000		0	71.43
			40.000	-	45.000		1	76.19
			45.000	-	50.000		1	80.95

```
             65.000  -      70.000              0    61.54
             70.000  -   _                      5   100.00
T_MP2            27.334   42.631                        0
                  _     -       0.000          11    52.38
               0.000    -       5.000           1    57.14
               5.000    -      10.000           0    57.14
              10.000    -      15.000           1    61.90
              15.000    -      20.000           0    61.90
              20.000    -      25.000           0    61.90
              25.000    -      30.000           1    66.67
              30.000    -      35.000           1    71.43
              35.000    -      40.000           0    71.43
              40.000    -      45.000           1    76.19
              45.000    -      50.000           1    80.95
              50.000    -   _                    4   100.00
T_LP1            55.206   71.619                        0
                  _     -       0.000           3    37.50
               0.000    -      10.000           0    37.50
              10.000    -      20.000           0    37.50
              20.000    -      30.000           1    50.00
              30.000    -      40.000           0    50.00
              40.000    -      50.000           1    62.50
              50.000    -      60.000           1    75.00
              60.000    -      70.000           0    75.00
              70.000    -      80.000           0    75.00
              80.000    -      90.000           0    75.00
              90.000    -     100.000           1    87.50
             100.000    -     110.000           0    87.50
             110.000    -   _                    1   100.00
T_LP2            23.519   32.397                        0
                  _     -       0.000          14    58.33
               0.000    -       5.000           1    62.50
               5.000    -      10.000           0    62.50
              10.000    -      15.000           0    62.50
              15.000    -      20.000           0    62.50
              20.000    -      25.000           0    62.50
              25.000    -      30.000           0    62.50
              30.000    -      35.000           0    62.50
              35.000    -      40.000           0    62.50
              40.000    -      45.000           0    62.50
              45.000    -   _                    9   100.00


CEC XN    PRI          M1     ASSEM  CURRENT  NEXT  PARAMETER    VALUE
  101      1      4043.454     101      33     34


FEC XN    PRI         BDT     ASSEM  CURRENT  NEXT  PARAMETER    VALUE
  102      2      4140.871     102       0      3
  103      3      4147.317     103       0      1
  104      1      4149.637     104       0      5
```
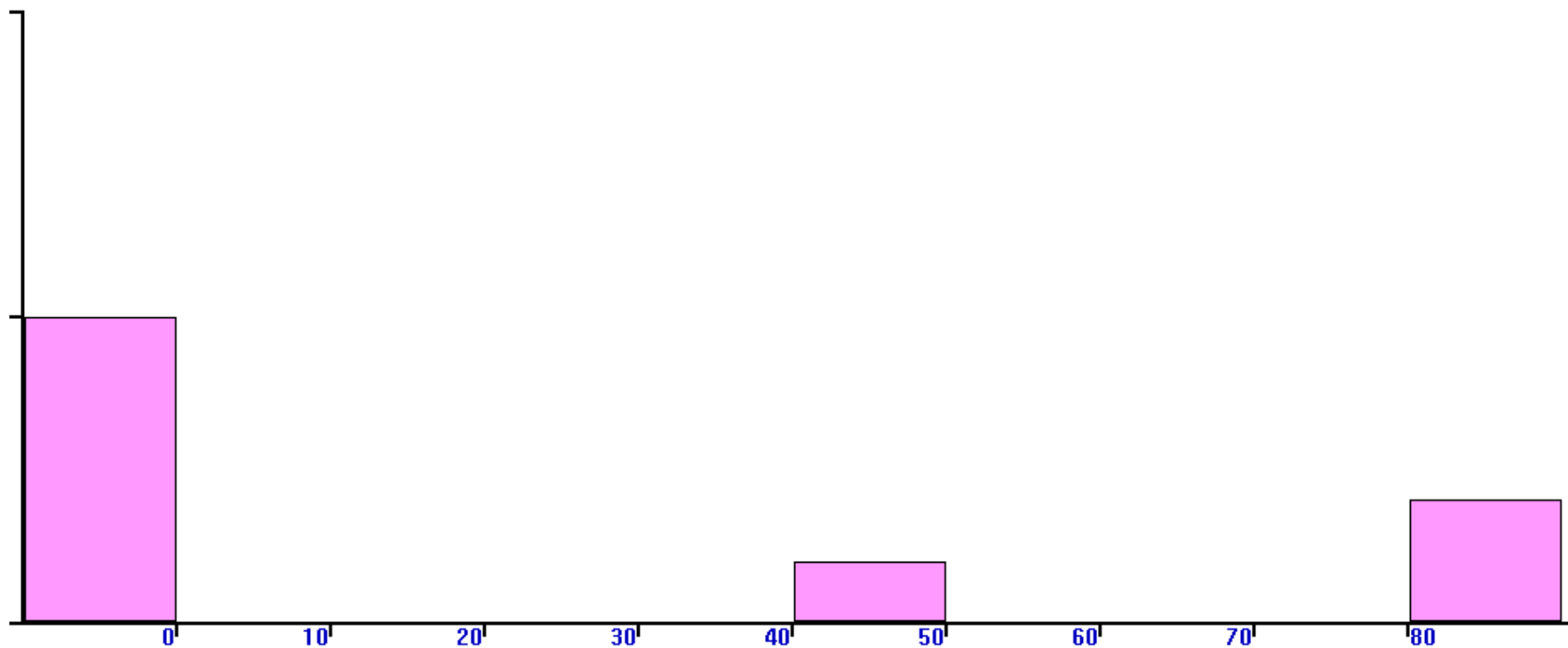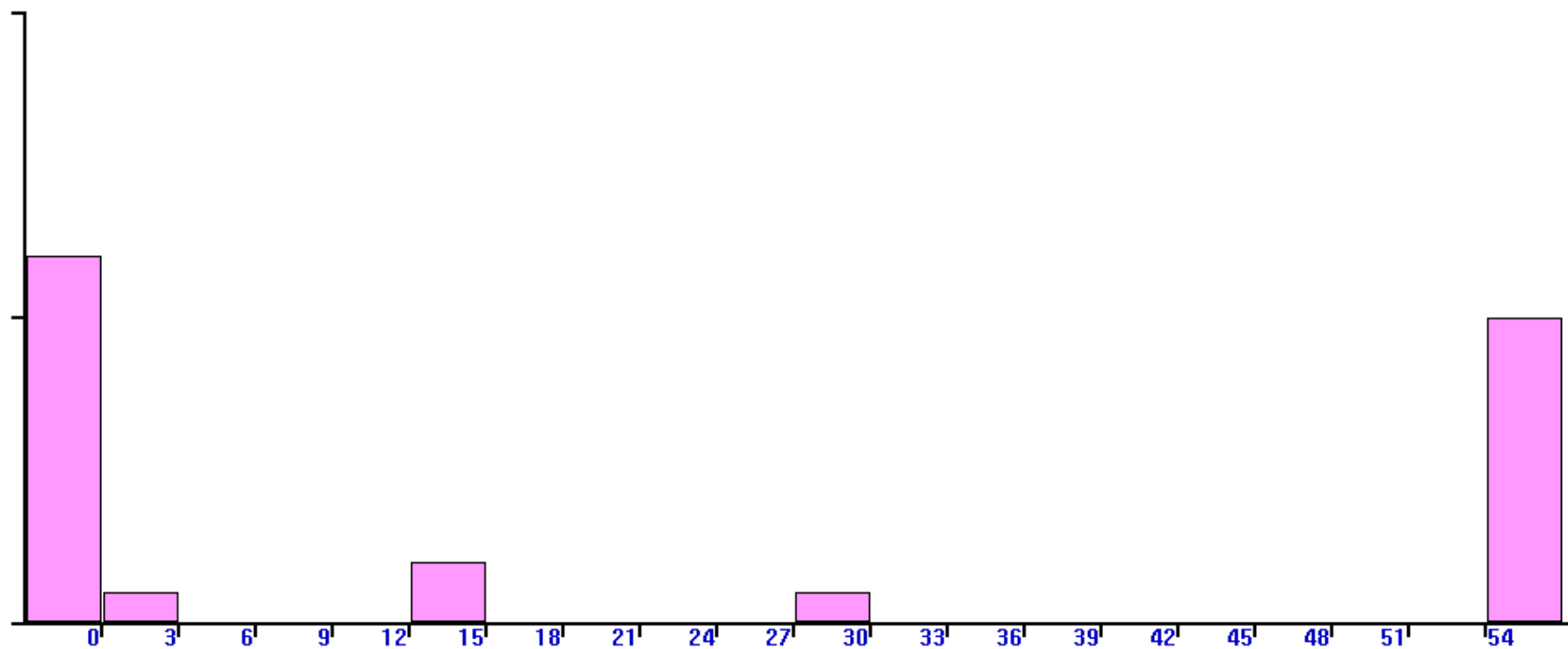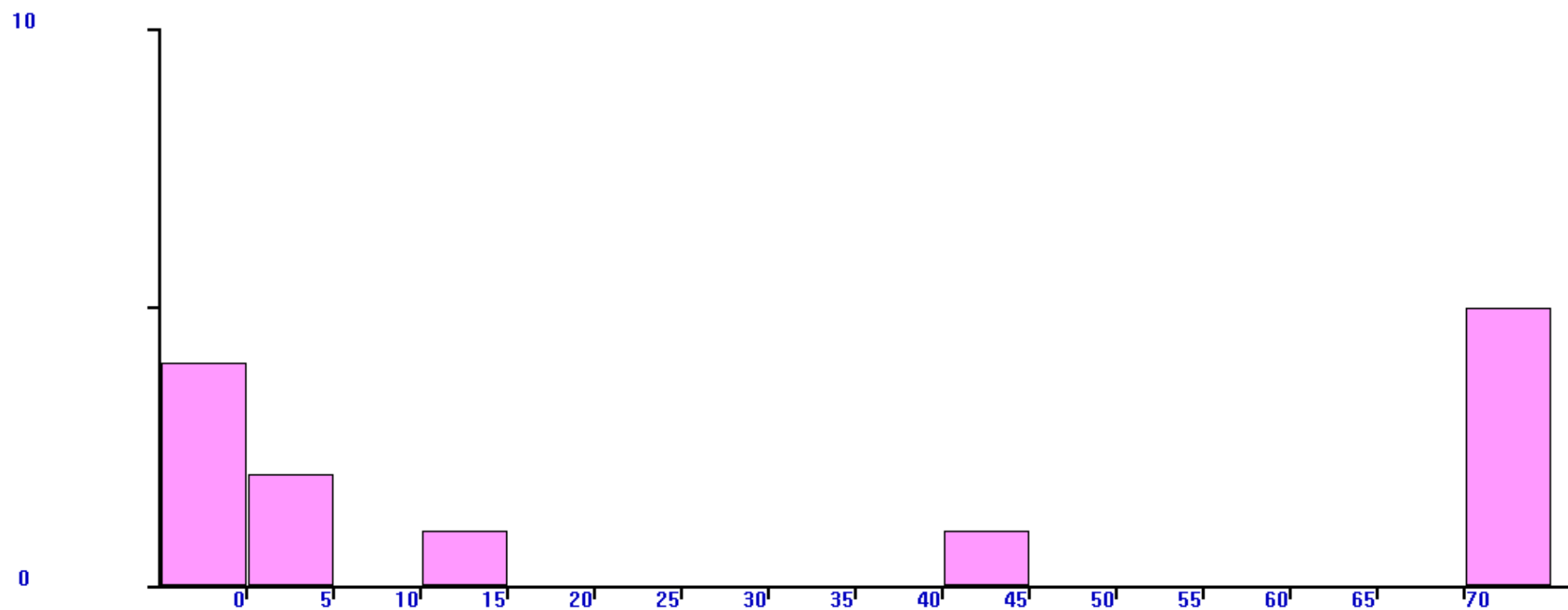
T_HP1

Mean: 39.985   S.D.: 68.875

T_HP2

Mean: 34.591   S.D.: 44.967

T_MP1

Mean: 36.211   S.D.: 38.942

6.9.sim:12 - TABLE WINDOW
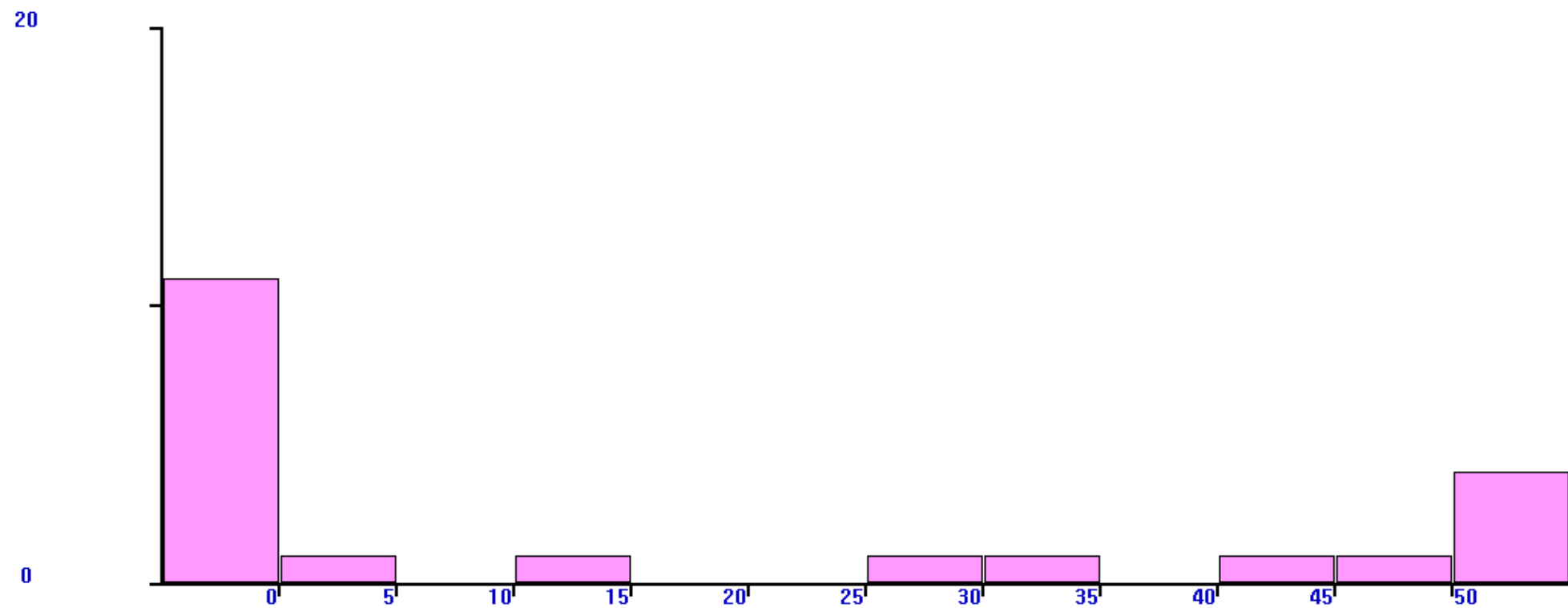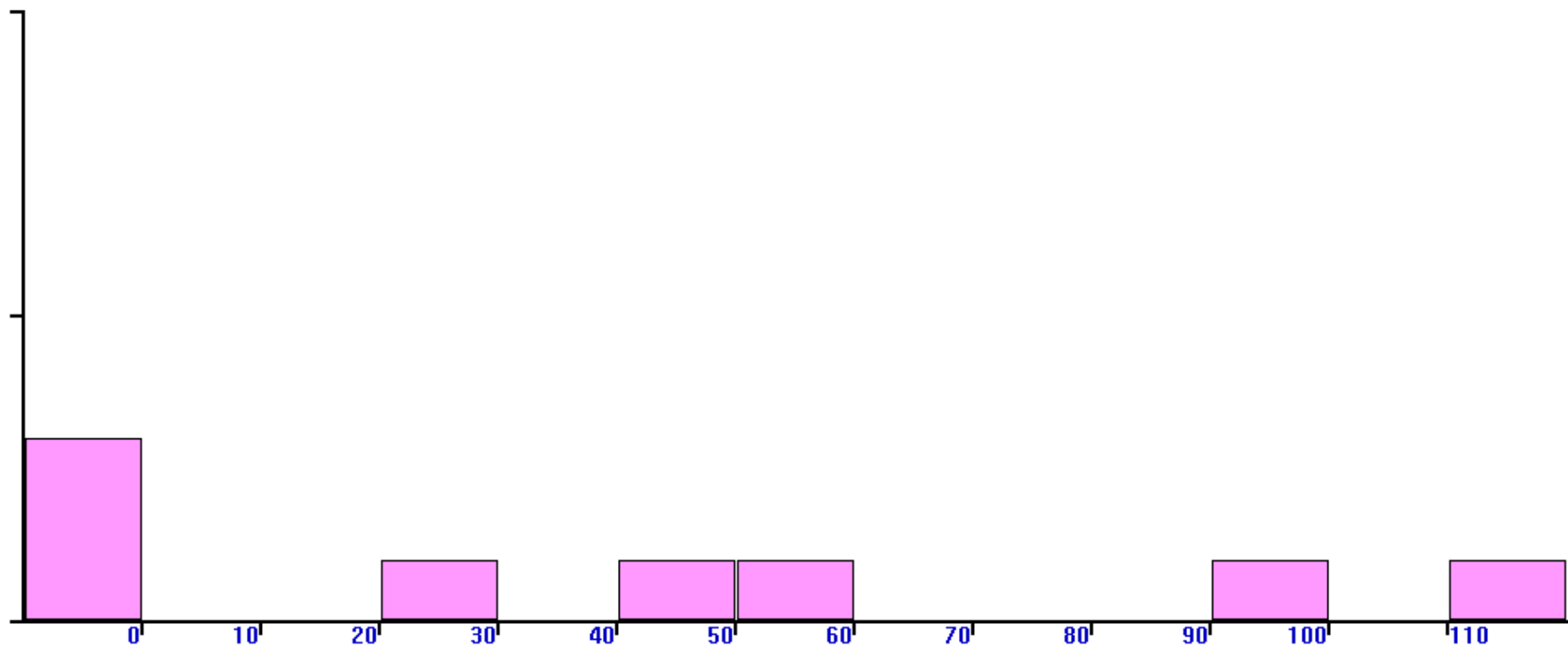
T_LP1

Mean: 55.206   S.D.: 71.619

T_LP2

Mean: 23.519   S.D.: 32.397