Грякалова Людмила
Вариант 4
<u>Задание 1.1 (обработка 500 транзактов)</u>
MEM2 STORAGE 2
MEM4 STORAGE 3
MEM5 STORAGE 4

```
        GENERATE 5,3
        TRANSFER .5,KK1,KK2

KK1     QUEUE QU1
        SEIZE K1
        DEPART QU1
        ADVANCE 20,4
        RELEASE K1
        TRANSFER ,OUT1

KK2     QUEUE QU2
        ENTER MEM2
        DEPART QU2
        ADVANCE 35,8
        LEAVE MEM2

OUT1    TRANSFER .5,KK3,KK4

KK3     QUEUE QU3
        SEIZE K3
        DEPART QU3
        ADVANCE 35,8
        RELEASE K3
        TRANSFER ,OUT2

KK4     QUEUE QU4
        ENTER MEM4
        DEPART QU4
        ADVANCE 15,5
        LEAVE MEM4

OUT2    QUEUE QU5
        ENTER MEM5
        DEPART QU5
        ADVANCE 15,6
        LEAVE MEM5

OUT3    TERMINATE    1
        START 500
```

<u>Отчёт:</u>

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                    GPSS World Simulation Report - 1.1.6.1


                    Saturday, May 20, 2023 22:01:11

            START TIME          END TIME  BLOCKS  FACILITIES  STORAGES
                0.000          6301.501     31         2          3


                    NAME                    VALUE
                    K1                    10005.000
                    K3                    10007.000
                    KK1                       3.000
                    KK2                       9.000
                    KK3                      15.000
                    KK4                      21.000
                    MEM2                  10000.000
                    MEM4                  10001.000
                    MEM5                  10002.000
                    OUT1                     14.000
                    OUT2                     26.000
                    OUT3                     31.000
                    QU1                   10004.000
                    QU2                   10003.000
                    QU3                   10006.000
                    QU4                   10008.000
                    QU5                   10009.000


    LABEL            LOC   BLOCK TYPE      ENTRY COUNT CURRENT COUNT RETRY
                     1     GENERATE          1260          0          0
                     2     TRANSFER          1260          0          0
    KK1              3     QUEUE              649        334          0
                     4     SEIZE              315          0          0
                     5     DEPART             315          0          0
                     6     ADVANCE            315          1          0
                     7     RELEASE            314          0          0
                     8     TRANSFER           314          0          0
    KK2              9     QUEUE              611        247          0
                     10    ENTER              364          0          0
                     11    DEPART             364          0          0
                     12    ADVANCE            364          2          0
                     13    LEAVE              362          0          0
    OUT1             14    TRANSFER           676          0          0
    KK3              15    QUEUE              352        174          0
                     16    SEIZE              178          0          0
                     17    DEPART             178          0          0
                     18    ADVANCE            178          1          0
                     19    RELEASE            177          0          0
                     20    TRANSFER           177          0          0
    KK4              21    QUEUE              324          0          0
                     22    ENTER              324          0          0
                     23    DEPART             324          0          0
                     24    ADVANCE            324          1          0
                     25    LEAVE              323          0          0
    OUT2             26    QUEUE              500          0          0
                     27    ENTER              500          0          0
                     28    DEPART             500          0          0
                     29    ADVANCE            500          0          0
                     30    LEAVE              500          0          0
    OUT3             31    TERMINATE          500          0          0


    FACILITY         ENTRIES   UTIL.    AVE. TIME AVAIL.  OWNER PEND INTER RETRY DELAY
    K1                 315     0.998     19.961    1       600    0    0     0    334
    K3                 178     0.994     35.184    1       391    0    0     0    174


    QUEUE            MAX CONT.  ENTRY ENTRY(0) AVE.CONT.  AVE.TIME    AVE.(-0) RETRY
    QU2              248  247    611      2    114.824   1184.225    1188.115   0
    QU1              334  334    649      1    173.466   1684.275    1686.874   0
    QU3              174  174    352      2     87.973   1574.892    1583.892   0
    QU4                1    0    324    324      0.000      0.000       0.000   0
    QU5                1    0    500    499      0.001      0.007       3.309   0


    STORAGE          CAP. REM. MIN. MAX.  ENTRIES AVL.  AVE.C. UTIL. RETRY DELAY
    MEM2              2    0    0    2      364     1     1.995  0.997    0    247
    MEM4              3    2    0    3      324     1     0.761  0.254    0    0
    MEM5              4    4    0    4      500     1     1.172  0.293    0    0


    FEC XN   PRI       BDT     ASSEM  CURRENT  NEXT  PARAMETER    VALUE
      1261    0    6304.923    1261      0       1
       598    0    6306.264     598     24      25
       600    0    6315.568     600      6       7
       767    0    6317.549     767     12      13
       768    0    6326.938     768     12      13
       391    0    6332.523     391     18      19
```

Задание 1.2 (в течение 8 часов)

```
MEM2  STORAGE 2
MEM4  STORAGE 3
MEM5  STORAGE 4

      GENERATE 5,3
      TRANSFER .5,KK1,KK2

KK1   QUEUE QU1
      SEIZE K1
      DEPART QU1
      ADVANCE 20,4
      RELEASE K1
      TRANSFER ,OUT1

KK2   QUEUE QU2
      ENTER MEM2
      DEPART QU2
      ADVANCE 35,8
      LEAVE MEM2

OUT1  TRANSFER .5,KK3,KK4

KK3   QUEUE QU3
      SEIZE K3
      DEPART QU3
      ADVANCE 35,8
      RELEASE K3
      TRANSFER ,OUT2

KK4   QUEUE QU4
      ENTER MEM4
      DEPART QU4
      ADVANCE 15,5
      LEAVE MEM4

OUT2  QUEUE QU5
      ENTER MEM5
      DEPART QU5
      ADVANCE 15,6
      LEAVE MEM5

OUT3  TERMINATE
      GENERATE 480
      TERMINATE 1
      START 1
```

Отчёт:

Saturday, May 20, 2023 22:18:17

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	480.000	33	2	3

NAME	VALUE
K1	10005.000
K3	10007.000
KK1	3.000
KK2	9.000
KK3	15.000
KK4	21.000
MEM2	10000.000
MEM4	10001.000
MEM5	10002.000
OUT1	14.000
OUT2	26.000
OUT3	31.000
QU1	10004.000
QU2	10003.000
QU3	10006.000
QU4	10008.000
QU5	10009.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
	1	GENERATE	96	0	0
	2	TRANSFER	96	0	0
KK1	3	QUEUE	55	32	0
	4	SEIZE	23	0	0
	5	DEPART	23	0	0
	6	ADVANCE	23	1	0
	7	RELEASE	22	0	0
	8	TRANSFER	22	0	0
KK2	9	QUEUE	41	13	0
	10	ENTER	28	0	0
	11	DEPART	28	0	0
	12	ADVANCE	28	2	0
	13	LEAVE	26	0	0
OUT1	14	TRANSFER	48	0	0
KK3	15	QUEUE	21	8	0
	16	SEIZE	13	0	0
	17	DEPART	13	0	0
	18	ADVANCE	13	1	0
	19	RELEASE	12	0	0
	20	TRANSFER	12	0	0
KK4	21	QUEUE	27	0	0
	22	ENTER	27	0	0
	23	DEPART	27	0	0
	24	ADVANCE	27	1	0
	25	LEAVE	26	0	0
OUT2	26	QUEUE	38	0	0
	27	ENTER	38	0	0
	28	DEPART	38	0	0
	29	ADVANCE	38	2	0
	30	LEAVE	36	0	0
OUT3	31	TERMINATE	36	0	0
	32	GENERATE	1	0	0
	33	TERMINATE	1	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
K1	23	0.971	20.273	1	44	0	0	0	32
K3	13	0.919	33.940	1	27	0	0	0	8

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
QU2	14	13	41	2	8.039	94.115	98.941	0
QU1	32	32	55	1	15.600	136.148	138.669	0
QU3	10	8	21	2	3.718	84.979	93.924	0
QU4	1	0	27	27	0.000	0.000	0.000	0
QU5	1	0	38	38	0.000	0.000	0.000	0

STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY	DELAY
MEM2	2	0	0	2	28	1	1.933	0.966	0	13
MEM4	3	2	0	3	27	1	0.796	0.265	0	0
MEM5	4	2	0	4	38	1	1.100	0.275	0	0

FEC XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
55	0	480.164	55	29	30		
98	0	482.812	98	0	1		
44	0	484.212	44	6	7		
56	0	487.653	56	24	25		
43	0	492.170	43	29	30		
57	0	493.435	57	12	13		
27	0	501.561	27	18	19		
59	0	504.658	59	12	13		
99	0	960.000	99	0	32		

Задание 2

```
MEM2   STORAGE 2
MEM4   STORAGE 3
MEM5   STORAGE 4

       GENERATE 5,3
       TRANSFER .5,KK1,KK2

KK1    TEST L Q$QU1,5,COUNTER
       QUEUE QU1
       SEIZE K1
       DEPART QU1
       ADVANCE 20,4
       RELEASE K1
       TRANSFER ,OUT1

KK2    TEST L Q$QU2,5,COUNTER
       QUEUE QU2
       ENTER MEM2
       DEPART QU2
       ADVANCE 35,8
       LEAVE MEM2

OUT1   TRANSFER .5,KK3,KK4

KK3    TEST L Q$QU3,5,COUNTER
       QUEUE QU3
       SEIZE K3
       DEPART QU3
       ADVANCE 35,8
       RELEASE K3
       TRANSFER ,OUT2

KK4    TEST L Q$QU4,5,COUNTER
       QUEUE QU4
       ENTER MEM4
       DEPART QU4
       ADVANCE 15,5
       LEAVE MEM4

OUT2   TEST L Q$QU5,5,COUNTER
       QUEUE QU5
       ENTER MEM5
       DEPART QU5
       ADVANCE 15,6
       LEAVE MEM5

OUT3   TERMINATE
       GENERATE 720
       TERMINATE 1
       START 3
COUNTER        TERMINATE
```

Отчёт:

Saturday, May 20, 2023 22:25:40

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	2160.000	39	2	3

NAME	VALUE
COUNTER	39.000
K1	10005.000
K3	10007.000
KK1	3.000
KK2	10.000
KK3	17.000
KK4	24.000
MEM2	10000.000
MEM4	10001.000
MEM5	10002.000
OUT1	16.000
OUT2	30.000
OUT3	36.000
QU1	10004.000
QU2	10003.000
QU3	10006.000
QU4	10008.000
QU5	10009.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
	1	GENERATE	423	0	0
	2	TRANSFER	423	0	0
KK1	3	TEST	228	0	0
	4	QUEUE	112	5	0
	5	SEIZE	107	0	0
	6	DEPART	107	0	0
	7	ADVANCE	107	1	0
	8	RELEASE	106	0	0
	9	TRANSFER	106	0	0
KK2	10	TEST	195	0	0
	11	QUEUE	130	5	0
	12	ENTER	125	0	0
	13	DEPART	125	0	0
	14	ADVANCE	125	2	0
	15	LEAVE	123	0	0
OUT1	16	TRANSFER	229	0	0
KK3	17	TEST	125	0	0
	18	QUEUE	65	4	0
	19	SEIZE	61	0	0
	20	DEPART	61	0	0
	21	ADVANCE	61	1	0
	22	RELEASE	60	0	0
	23	TRANSFER	60	0	0
KK4	24	TEST	104	0	0
	25	QUEUE	104	0	0
	26	ENTER	104	0	0
	27	DEPART	104	0	0
	28	ADVANCE	104	0	0
	29	LEAVE	104	0	0
OUT2	30	TEST	164	0	0
	31	QUEUE	164	0	0
	32	ENTER	164	0	0
	33	DEPART	164	0	0
	34	ADVANCE	164	3	0
	35	LEAVE	161	0	0
OUT3	36	TERMINATE	161	0	0
	37	GENERATE	3	0	0
	38	TERMINATE	3	0	0
COUNTER	39	TERMINATE	241	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
K1	107	0.994	20.059	1	406	0	0	0	5
K3	61	0.982	34.774	1	378	0	0	0	4

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
QU2	5	5	130	2	4.156	69.046	70.124	0
QU1	5	5	112	1	4.582	88.358	89.154	0
QU3	5	4	65	2	4.106	136.443	140.774	0
QU4	1	0	104	104	0.000	0.000	0.000	0
QU5	1	0	164	164	0.000	0.000	0.000	0

STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY	DELAY
MEM2	2	0	0	2	125	1	1.985	0.993	0	5
MEM4	3	3	0	3	104	1	0.712	0.237	0	0
MEM5	4	1	0	4	164	1	1.096	0.274	0	0

FEC XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
427	0	2160.542	427	0	1		
401	0	2161.482	401	34	35		
406	0	2162.015	406	7	8		
413	0	2162.257	413	14	15		
407	0	2164.012	407	14	15		
361	0	2164.571	361	34	35		
403	0	2174.998	403	34	35		
378	0	2193.235	378	21	22		
428	0	2880.000	428	0	37		