

Код программы №1:

KK2 STORAGE 2

KK4 STORAGE 3

KK5 STORAGE 4

GENERATE 7,5

TRANSFER .5,K1,K2

K1 QUEUE LOL1

SEIZE KK1

DEPART LOL1

ADVANCE 10,3

RELEASE KK1

TRANSFER ,OUT1

K2 QUEUE LOL2

ENTER KK2

DEPART LOL2

ADVANCE 35,8

LEAVE KK2

OUT1 TRANSFER .5,K3,K4

K3 QUEUE LOL3

SEIZE KK3

DEPART LOL3

ADVANCE 30,7

RELEASE KK3

TRANSFER ,OUT2

K4 QUEUE LOL4

ENTER KK4

DEPART LOL4

ADVANCE 45,5

LEAVE KK4

OUT2 QUEUE LOL5

ENTER KK5

DEPART LOL5

ADVANCE 20,5

LEAVE KK5

OUT3 TERMINATE 1

START 500

Результат программы №1:

GPSS World Simulation Report - Untitled Model 1.3.1

Saturday, March 25, 2023 01:05:37

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	5274.916	31	2	3

NAME	VALUE
K1	3.000
K2	9.000
K3	15.000
K4	21.000
KK1	10005.000
KK2	10000.000
KK3	10008.000
KK4	10001.000
KK5	10002.000
LOL1	10004.000
LOL2	10003.000
LOL3	10007.000
LOL4	10006.000
LOL5	10009.000
OUT1	14.000
OUT2	26.000
OUT3	31.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT	COUNT	RETRY
K1	1	GENERATE	756	0	0	0
	2	TRANSFER	756	0	0	0
	3	QUEUE	387	2	0	0
	4	SEIZE	385	0	0	0
	5	DEPART	385	0	0	0
	6	ADVANCE	385	1	0	0
	7	RELEASE	384	0	0	0
K2	8	TRANSFER	384	0	0	0
	9	QUEUE	369	67	0	0
	10	ENTER	302	0	0	0
	11	DEPART	302	0	0	0
	12	ADVANCE	302	2	0	0

	13	LEAVE	300	0	0
OUT1	14	TRANSFER	684	0	0
K3	15	QUEUE	350	172	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
K4	21	QUEUE	334	6	0
	22	ENTER	328	0	0
	23	DEPART	328	0	0
	24	ADVANCE	328	3	0
	25	LEAVE	325	0	0
OUT2	26	QUEUE	502	0	0
	27	ENTER	502	0	0
	28	DEPART	502	0	0
	29	ADVANCE	502	2	0
	30	LEAVE	500	0	0
OUT3	31	TERMINATE	500	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
KK1	385	0.720	9.871	1	753	0	0	0	2
KK3	178	0.992	29.386	1	316	0	0	0	172

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
LOL2	71	67	369	2	32.530	465.023	467.557	0
LOL1	4	2	387	150	0.433	5.896	9.627	0
LOL4	14	6	334	56	4.398	69.451	83.442	0
LOL3	173	172	350	1	84.586	1274.811	1278.464	0
LOL5	1	0	502	502	0.000	0.000	0.000	0

STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY	DELAY
KK2	2	0	0	2	302	1	1.992	0.996	0	67
KK4	3	0	0	3	328	1	2.766	0.922	0	6
KK5	4	2	0	4	502	1	1.906	0.477	0	0

FEC	XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
724	0		5279.827	724	29	30		
757	0		5281.326	757	0	1		
753	0		5283.807	753	6	7		
582	0		5284.502	582	29	30		
608	0		5286.441	608	12	13		
316	0		5287.179	316	18	19		
609	0		5290.273	609	12	13		
734	0		5301.912	734	24	25		
586	0		5306.474	586	24	25		
591	0		5306.876	591	24	25		

Код программы №2:

KK2 STORAGE 2

KK4 STORAGE 3

KK5 STORAGE 4

GENERATE 7,5

TRANSFER .5,K1,K2

K1 QUEUE LOL1

SEIZE KK1
DEPART LOL1
ADVANCE 10,3
RELEASE KK1
TRANSFER ,OUT1

K2 QUEUE LOL2
ENTER KK2
DEPART LOL2
ADVANCE 35,8
LEAVE KK2

OUT1 TRANSFER .5,K3,K4

K3 QUEUE LOL3
SEIZE KK3
DEPART LOL3
ADVANCE 30,7
RELEASE KK3
TRANSFER ,OUT2

K4 QUEUE LOL4
ENTER KK4
DEPART LOL4
ADVANCE 45,5
LEAVE KK4

OUT2 QUEUE LOL5
ENTER KK5
DEPART LOL5
ADVANCE 20,5
LEAVE KK5

OUT3 TERMINATE

GENERATE 480

TERMINATE 1

START 1

Результат программы №2:

GPSS World Simulation Report - Untitled Model 1.4.1

Saturday, March 25, 2023 01:07:44

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

NAME	VALUE
K1	3.000
K2	9.000
K3	15.000
K4	21.000
KK1	10005.000
KK2	10000.000
KK3	10008.000
KK4	10001.000
KK5	10002.000
LOL1	10004.000
LOL2	10003.000
LOL3	10007.000
LOL4	10006.000
LOL5	10009.000
OUT1	14.000
OUT2	26.000
OUT3	31.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
K1	1	GENERATE	70	0	0
	2	TRANSFER	70	0	0
	3	QUEUE	32	0	0
	4	SEIZE	32	0	0
	5	DEPART	32	0	0
	6	ADVANCE	32	0	0
	7	RELEASE	32	0	0
	8	TRANSFER	32	0	0
K2	9	QUEUE	38	11	0
	10	ENTER	27	0	0
	11	DEPART	27	0	0
	12	ADVANCE	27	2	0

	13	LEAVE	25	0	0
OUT1	14	TRANSFER	57	0	0
K3	15	QUEUE	32	18	0
	16	SEIZE	14	0	0
	17	DEPART	14	0	0
	18	ADVANCE	14	1	0
	19	RELEASE	13	0	0
	20	TRANSFER	13	0	0
K4	21	QUEUE	25	0	0
	22	ENTER	25	0	0
	23	DEPART	25	0	0
	24	ADVANCE	25	1	0
	25	LEAVE	24	0	0
OUT2	26	QUEUE	37	0	0
	27	ENTER	37	0	0
	28	DEPART	37	0	0
	29	ADVANCE	37	2	0
	30	LEAVE	35	0	0
OUT3	31	TERMINATE	35	0	0
	32	GENERATE	1	0	0
	33	TERMINATE	1	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
KK1	32	0.642	9.626	1	0	0	0	0	0
KK3	14	0.908	31.126	1	34	0	0	0	18

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
LOL2	12	11	38	2	5.485	69.286	73.136	0
LOL1	3	0	32	13	0.461	6.918	11.652	0
LOL4	2	0	25	17	0.166	3.193	9.978	0
LOL3	18	18	32	1	7.313	109.691	113.229	0
LOL5	1	0	37	37	0.000	0.000	0.000	0

STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY	DELAY
KK2	2	0	0	2	27	1	1.907	0.954	0	11
KK4	3	2	0	3	25	1	2.216	0.739	0	0
KK5	4	2	0	3	37	1	1.472	0.368	0	0

FEC	XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
34	0		482.102	34	18	19		
50	0		486.543	50	12	13		
72	0		488.676	72	0	1		
62	0		495.540	62	29	30		
42	0		498.271	42	29	30		
55	0		514.784	55	12	13		
45	0		525.583	45	24	25		
73	0		960.000	73	0	32		

Код программы №3:

KK2 STORAGE 2

KK4 STORAGE 3

KK5 STORAGE 4

GENERATE 7,5

TRANSFER .5,K1,K2

K1 TEST L Q\$LOL1,5,COUNTER

QUEUE LOL1
SEIZE KK1
DEPART LOL1
ADVANCE 10,3
RELEASE KK1
TRANSFER ,OUT1

K2 TEST L Q\$LOL2,5,COUNTER
QUEUE LOL2
ENTER KK2
DEPART LOL2
ADVANCE 35,8
LEAVE KK2

OUT1 TRANSFER .5,K3,K4
K3 TEST L Q\$LOL3,5,COUNTER
QUEUE LOL3
SEIZE KK3
DEPART LOL3
ADVANCE 30,7
RELEASE KK3
TRANSFER ,OUT2
K4 TEST L Q\$LOL4,5,COUNTER
QUEUE LOL4
ENTER KK4
DEPART LOL4
ADVANCE 45,5
LEAVE KK4

OUT2 TEST L Q\$LOL5,5,COUNTER
QUEUE LOL5
ENTER KK5
DEPART LOL5
ADVANCE 20,5
LEAVE KK5

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OUT3 TERMINATE
    GENERATE 720
    TERMINATE 1
    START 3
COUNTER      TERMINATE

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Результат программы №3:

GPSS World Simulation Report - Untitled Model 1.5.1

Saturday, March 25, 2023 01:10:03

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

NAME	VALUE
COUNTER	39.000
K1	3.000
K2	10.000
K3	17.000
K4	24.000
KK1	10005.000
KK2	10000.000
KK3	10008.000
KK4	10001.000
KK5	10002.000
LOL1	10004.000
LOL2	10003.000
LOL3	10007.000
LOL4	10006.000
LOL5	10009.000
OUT1	16.000
OUT2	30.000
OUT3	36.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
K1	1	GENERATE	320	0	0
	2	TRANSFER	320	0	0
	3	TEST	160	0	0
	4	QUEUE	160	0	0
	5	SEIZE	160	0	0
	6	DEPART	160	0	0
	7	ADVANCE	160	1	0
	8	RELEASE	159	0	0
	9	TRANSFER	159	0	0
K2	10	TEST	160	0	0
	11	QUEUE	131	5	0
	12	ENTER	126	0	0

	13	DEPART	126	0	0
	14	ADVANCE	126	2	0
	15	LEAVE	124	0	0
OUT1	16	TRANSFER	283	0	0
K3	17	TEST	145	0	0
	18	QUEUE	77	4	0
	19	SEIZE	73	0	0
	20	DEPART	73	0	0
	21	ADVANCE	73	1	0
	22	RELEASE	72	0	0
	23	TRANSFER	72	0	0
K4	24	TEST	138	0	0
	25	QUEUE	132	1	0
	26	ENTER	131	0	0
	27	DEPART	131	0	0
	28	ADVANCE	131	3	0
	29	LEAVE	128	0	0
OUT2	30	TEST	200	0	0
	31	QUEUE	200	0	0
	32	ENTER	200	0	0
	33	DEPART	200	0	0
	34	ADVANCE	200	2	0
	35	LEAVE	198	0	0
OUT3	36	TERMINATE	198	0	0
	37	GENERATE	3	0	0
	38	TERMINATE	3	0	0
COUNTER	39	TERMINATE	103	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
KK1	160	0.724	9.779	1	323	0	0	0	0
KK3	73	0.980	28.983	1	301	0	0	0	4

QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY
LOL2	5	5	131	8	3.224	53.166	56.624	0
LOL1	3	0	160	54	0.399	5.391	8.138	0
LOL4	5	1	132	31	1.682	27.522	35.969	0
LOL3	5	4	77	1	4.346	121.908	123.512	0
LOL5	1	0	200	200	0.000	0.000	0.000	0

STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY	DELAY
KK2	2	0	0	2	126	1	1.956	0.978	0	5
KK4	3	0	0	3	131	1	2.685	0.895	0	1
KK5	4	2	0	4	200	1	1.863	0.466	0	0

FEC	XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
324	0		2165.582	324	0	1		
294	0		2165.688	294	34	35		
297	0		2169.590	297	28	29		
309	0		2170.465	309	14	15		
301	0		2171.936	301	21	22		
323	0		2172.269	323	7	8		
313	0		2173.095	313	14	15		
300	0		2181.904	300	34	35		
315	0		2185.375	315	28	29		
317	0		2198.442	317	28	29		
325	0		2880.000	325	0	37		