

Задание 1

```
MEM STORAGE      8
020 ZEXP  FUNCTION   RN1,C12
0,.0/.2,.22/.4,.51/.5,.69/.6,.92/.7,1.2/.8,1.61
.9,2.3/.95,3/.99,4.6/.999,6.9/1,100
        GENERATE    2, FN$ZEXP,,500
        TEST L Q$A11,5,COUNTER
        QUEUE       A11
        ENTER       MEM,1
        DEPART      A11
MET6   QUEUE       A2
        TRANSFER    BOTH,MET1,MET2
MET1   SEIZE       CPU1
        DEPART      A2
        ADVANCE     5, FN$ZEXP
        RELEASE     CPU1
        TRANSFER    ,MET3
MET2   SEIZE       CPU2
        DEPART      A2
        ADVANCE     1, FN$ZEXP
        RELEASE     CPU2
MET3   TRANSFER   .6,MET5,MET4
MET4   QUEUE       A3
        SEIZE       DISK
        DEPART      A3
        ADVANCE     5,3
        RELEASE     DISK
        TRANSFER    ,MET6
MET5   LEAVE       MEM,1
        TERMINATE   1
COUNTER TERMINATE 1
        START      500|
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Monday, March 27, 2023 07:54:12

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	1451.004	26	3	1

NAME	VALUE
A11	10002.000
A2	10003.000
A3	10006.000
COUNTER	26.000
CPU1	10004.000
CPU2	10005.000
DISK	10007.000
MEM	10000.000
MET1	8.000
MET2	13.000
MET3	17.000
MET4	18.000
MET5	24.000
MET6	6.000
ZEXP	10001.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT	COUNT	RETRY
	1	GENERATE	500	0	0	0
	2	TEST	500	0	0	0
	3	QUEUE	174	0	0	0
	4	ENTER	174	0	0	0
	5	DEPART	174	0	0	0
MET6	6	QUEUE	422	0	0	0
	7	TRANSFER	422	0	0	0
MET1	8	SEIZE	197	0	0	0
	9	DEPART	197	0	0	0
	10	ADVANCE	197	0	0	0
	11	RELEASE	197	0	0	0
	12	TRANSFER	197	0	0	0
MET2	13	SEIZE	225	0	0	0
	14	DEPART	225	0	0	0
	15	ADVANCE	225	0	0	0
	16	RELEASE	225	0	0	0
MET3	17	TRANSFER	422	0	0	0
MET4	18	QUEUE	248	0	0	0
	19	SEIZE	248	0	0	0
	20	DEPART	248	0	0	0
	21	ADVANCE	248	0	0	0
	22	RELEASE	248	0	0	0

MET5	23	TRANSFER	248	0	0				
	24	LEAVE	174	0	0				
	25	TERMINATE	174	0	0				
COUNTER	26	TERMINATE	326	0	0				
 FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
CPU1	197	0.663	4.880	1	0	0	0	0	0
CPU2	225	0.151	0.976	1	0	0	0	0	0
DISK	248	0.881	5.154	1	0	0	0	0	0
 QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY	
A11	5	0	174	36	2.987	24.909	31.408	0	
A2	2	0	422	402	0.007	0.023	0.479	0	
A3	7	0	248	16	4.504	26.352	28.170	0	
 STORAGE	CAP.	REM.	MIN.	MAX.	ENTRIES	AVL.	AVE.C.	UTIL.	RETRY
MEM	8	8	0	8	174	1	6.205	0.776	0

Задание 2

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ZEXP FUNCTION RN1,C12
0,0/.2,.22/.4,.51/.5,.69/.6,.92/.7,1.2/.8,1.61/
.9,2.3/.95,3/.99,4.6/.999,6.9/1,100
GENERATE 6,FN$ZEXP

        TRANSFER .2,GOTO1,MET1
GOTO1   TRANSFER .25,GOTO2,MET2
GOTO2   TRANSFER .333,GOTO3,MET3
GOTO3   TRANSFER .5,MET4,MET5

MET1    TEST L Q$QUI1,5,COUNTER
        QUEUE QUI1
        SEIZE DISK1
        DEPART QUI1
        ASSIGN 1,DISK1
        ADVANCE 15,15
        TRANSFER ,OUT

MET2    TEST L Q$QU2,5,COUNTER
        QUEUE QU2
        SEIZE DISK2
        DEPART QU2
        ASSIGN 1,DISK2
        ADVANCE 15,15
        TRANSFER ,OUT

MET3    TEST L Q$QU3,5,COUNTER
        QUEUE QU3
        SEIZE DISK3
        DEPART QU3
        ASSIGN 1,DISK3
        ADVANCE 15,15
        TRANSFER ,OUT

MET4    TEST L Q$QU4,5,COUNTER
        QUEUE QU4
        SEIZE DISK4
        DEPART QU4
        ASSIGN 1,DISK4
        ADVANCE 15,15
        TRANSFER ,OUT

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```
MET5      TEST L Q$QU5,5,COUNTER
          QUEUE QU5
          SEIZE DISK5
          DEPART QU5
          ASSIGN 1,DISK5
          ADVANCE 15,15

OUT       QUEUE QU6
          SEIZE CAN
          ADVANCE 1.7
          RELEASE CAN
          RELEASE P1
          TERMINATE

COUNTER   TERMINATE
          GENERATE 150000
          TERMINATE 1
          START 1
```

START TIME	END TIME	BLOCKS	FACILITIES	STORAGES
0.000	1500000.000	48	6	0

NAME	VALUE
CAN	10006.000
COUNTER	46.000
DISK1	10012.000
DISK2	10004.000
DISK3	10010.000
DISK4	10008.000
DISK5	10002.000
GOTO1	3.000
GOTO2	4.000
GOTO3	5.000
MET1	6.000
MET2	13.000
MET3	20.000
MET4	27.000
MET5	34.000
OUT	40.000
QU1	10011.000
QU2	10003.000
QU3	10009.000
QU4	10007.000
QU5	10001.000
QU6	10005.000
ZEXP	10000.000

LABEL	LOC	BLOCK TYPE	ENTRY COUNT	CURRENT COUNT	RETRY
	1	GENERATE	23966	0	0
	2	TRANSFER	23966	0	0
GOTO1	3	TRANSFER	19162	0	0
GOTO2	4	TRANSFER	14257	0	0
GOTO3	5	TRANSFER	9568	0	0
MET1	6	TEST	4804	0	0
	7	QUEUE	4795	1	0
	8	SEIZE	4794	0	0
	9	DEPART	4794	0	0
	10	ASSIGN	4794	0	0
	11	ADVANCE	4794	1	0
	12	TRANSFER	4793	0	0

MET2	13	TEST	4905	0	0
	14	QUEUE	4896	0	0
	15	SEIZE	4896	0	0
	16	DEPART	4896	0	0
	17	ASSIGN	4896	0	0
	18	ADVANCE	4896	0	0
	19	TRANSFER	4896	0	0
MET3	20	TEST	4689	0	0
	21	QUEUE	4675	0	0
	22	SEIZE	4675	0	0
	23	DEPART	4675	0	0
	24	ASSIGN	4675	0	0
	25	ADVANCE	4675	0	0
	26	TRANSFER	4675	0	0
MET4	27	TEST	4750	0	0
	28	QUEUE	4737	1	0
	29	SEIZE	4736	0	0
	30	DEPART	4736	0	0
	31	ASSIGN	4736	0	0
	32	ADVANCE	4736	1	0
	33	TRANSFER	4735	0	0
MET5	34	TEST	4818	0	0
	35	QUEUE	4802	2	0
	36	SEIZE	4800	0	0
	37	DEPART	4800	0	0
	38	ASSIGN	4800	0	0
	39	ADVANCE	4800	1	0
OUT	40	QUEUE	23898	0	0
	41	SEIZE	23898	0	0
	42	ADVANCE	23898	0	0
	43	RELEASE	23898	0	0
	44	RELEASE	23898	0	0
	45	TERMINATE	23898	0	0
COUNTER	46	TERMINATE	61	0	0
	47	GENERATE	1	0	0
	48	TERMINATE	1	0	0

FACILITY	ENTRIES	UTIL.	AVE. TIME	AVAIL.	OWNER	PEND	INTER	RETRY	DELAY
DISK5	4800	0.538	16.800	1	23963	0	0	0	2
DISK2	4896	0.552	16.903	1	0	0	0	0	0
CAN	23898	0.271	1.700	1	0	0	0	0	0
DISK4	4736	0.531	16.825	1	23960	0	0	0	1
DISK3	4675	0.524	16.806	1	0	0	0	0	0
DISK1	4794	0.541	16.939	1	23964	0	0	0	1
QUEUE	MAX	CONT.	ENTRY	ENTRY(0)	AVE.CONT.	AVE.TIME	AVE.(-0)	RETRY	
QU5	5	2	4802	2156	0.407	12.709	23.064	0	
QU2	5	0	4896	2120	0.423	12.967	22.871	0	
QU6	23898	23898	23898	0	11985.021	75226.092	75226.092	0	
QU4	5	1	4737	2187	0.390	12.343	22.929	0	
QU3	5	0	4675	2169	0.367	11.763	21.943	0	
QUI	5	1	4795	2165	0.399	12.470	22.736	0	

FEC	XN	PRI	BDT	ASSEM	CURRENT	NEXT	PARAMETER	VALUE
23968	0		150004.937	23968	0	1		
23960	0		150006.180	23960	32	33	1	10008.000
23963	0		150017.008	23963	39	40	1	10002.000
23964	0		150020.507	23964	11	12	1	10012.000
23969	0		300000.000	23969	0	47		