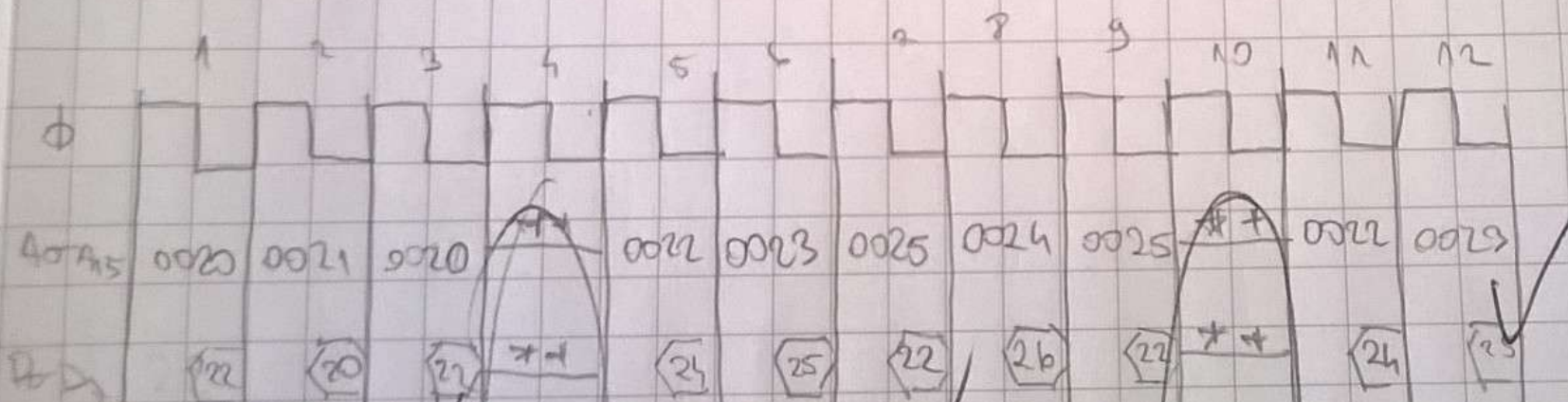


②

0020	\$22	} → LDA	A ← M(0020)
0021	\$20		
0022	\$24	} → STA	A → M(0025)
0023	\$15		
0024	\$26	} → MP	PC ← \$20
0025	\$20		
0026		→ preposition sa \$22! U A TAKU ✓	

PC ← 0020



* → stop
F → FETCH

0025
0026

320
precision sa 322! V 7 TAKU ✓

PODNO PC=0020

	1	2	3	4	5	6	7	8	9	10	11	12
φ												
AdAs	0020	0021	0020	0022	0023	0025	0024	0025	0022	0023		
D ₂₃	22	20	21	21	25	25	22	26	22	24	25	
R												
W												
PC	0021	0022	0022	0022	0023	0024	0024	0025	0025	0022	0023	0024
IR	22	22	22	22	24	24	24	26	26	26	24	24
A	xx	xx	xx	22	22	22	22	22	22	22	22	22
DL	xx	0020	0020	0020	0020	0025	0025	0025	0025	0025	0025	0025
PR	xx	xx	xx	xx	xx	xx	xx	xx	22	22	22	22



*+ → stave visoke impedancije

F → FETCH

E → EXECUTE

③.

$p = \$4$; $p2 = \$5$; $q = \$6$

beg $\$4, \5 EXIT

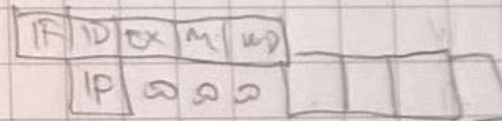
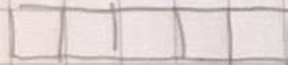
LOOP: lw $r0, 0(\$4)$ $r0 = *p$
 sw $r0, 0(\$6)$ $*q = *p$
 addi $\$6, \$6, \#4$
 addi $\$4, \$4, \#4$
 bne $\$4, \$5, LOOP$

EXIT: ---

1. OPTIMALNI

OPTIMALNI

0021 $\$20$ } LDA
 0022 $\$24$ } STA
 0023 $\$25$



bne \$4, \$5 LOOP

EXIT: ---

NEOPTIMALNI

beg \$4, \$5 EXIT P=P₂?
nop

Loop: lw r0, 0(\$4) r0 = *p

nop
nop

nop

sw r0, 0(\$6) *a = *p

addi \$4, \$4, #4 p++

addi \$6, \$6, #4 a++

bne \$4, \$5 LOOP P=P₂?
nop

EXIT: ---

OPTIMALNI

beg \$4, \$5 EXIT
nop

Loop: lw r0, 0(\$4)

addi \$6, \$6, #4

addi \$4, \$4, #4

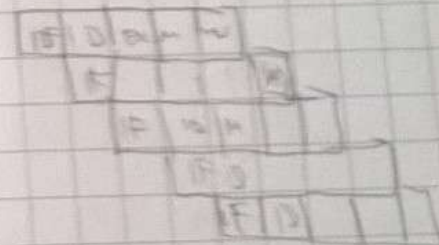
nop

sw r0, -4(\$6)

bne \$4, \$5 LOOP

nop

EXIT: ---



(a)

5.

a) SMT

1	1	1	1
2	2	3	3
3	1	2	2
1	1		
2	2	2	2
3	3	1	2
1	1	1	1
2			
3	1	2	2
2	2	3	1
1	1	2	2
3	3	3	1
1	2	2	

b) MT-firmaznata

1	1	1	1
2	2		
3	3	3	
1			
2	2		
3	3		
1	1		
2	2	2	2
3			
1			
2			
3			
1	1	1	1
2			
3	3	3	3
1			
2	2	2	2
1	1	1	
2	2		
1	1		
2	2		

c) MT - grubozrnata

1	1	1	1
1			
1	1		
2	2		
2	2		
3	3	3	
1			
1	1	1	1
2	2	2	2
2			
3	3		
1			
1	1	1	
1	1		
2			
2	2	2	2
2	2		
2	2		
3			
3			
3	3	3	