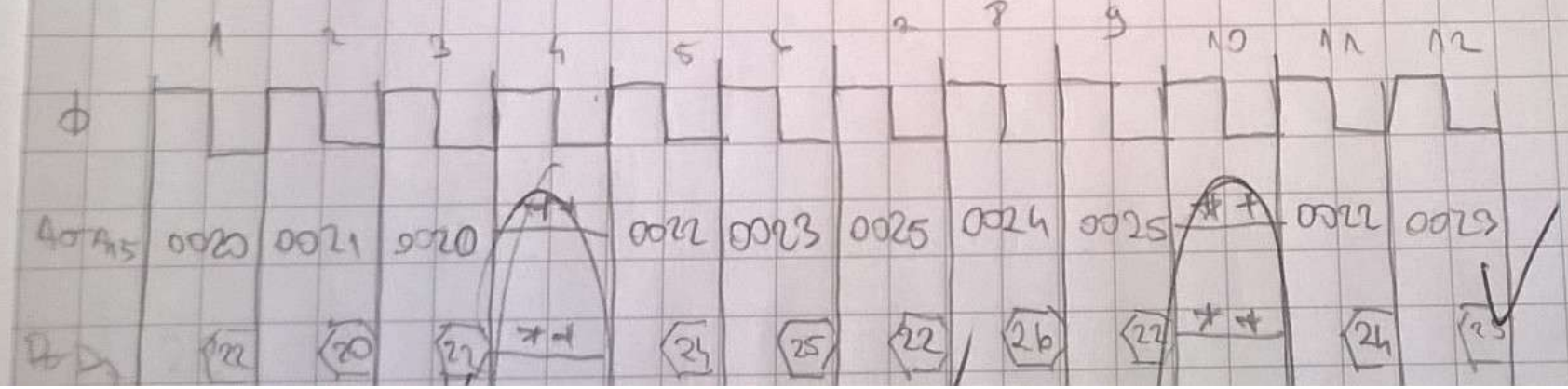
②

0020	$22	→ LDA	A ← M(0020)
0021	$20		
0022	$24	} STA	A → M(0025)
0023	$25		
0024	$26	} JMP	PC ← $20
0025	$20		
0026		→ prepisan sa $22 ! U A TAKTU ✓	

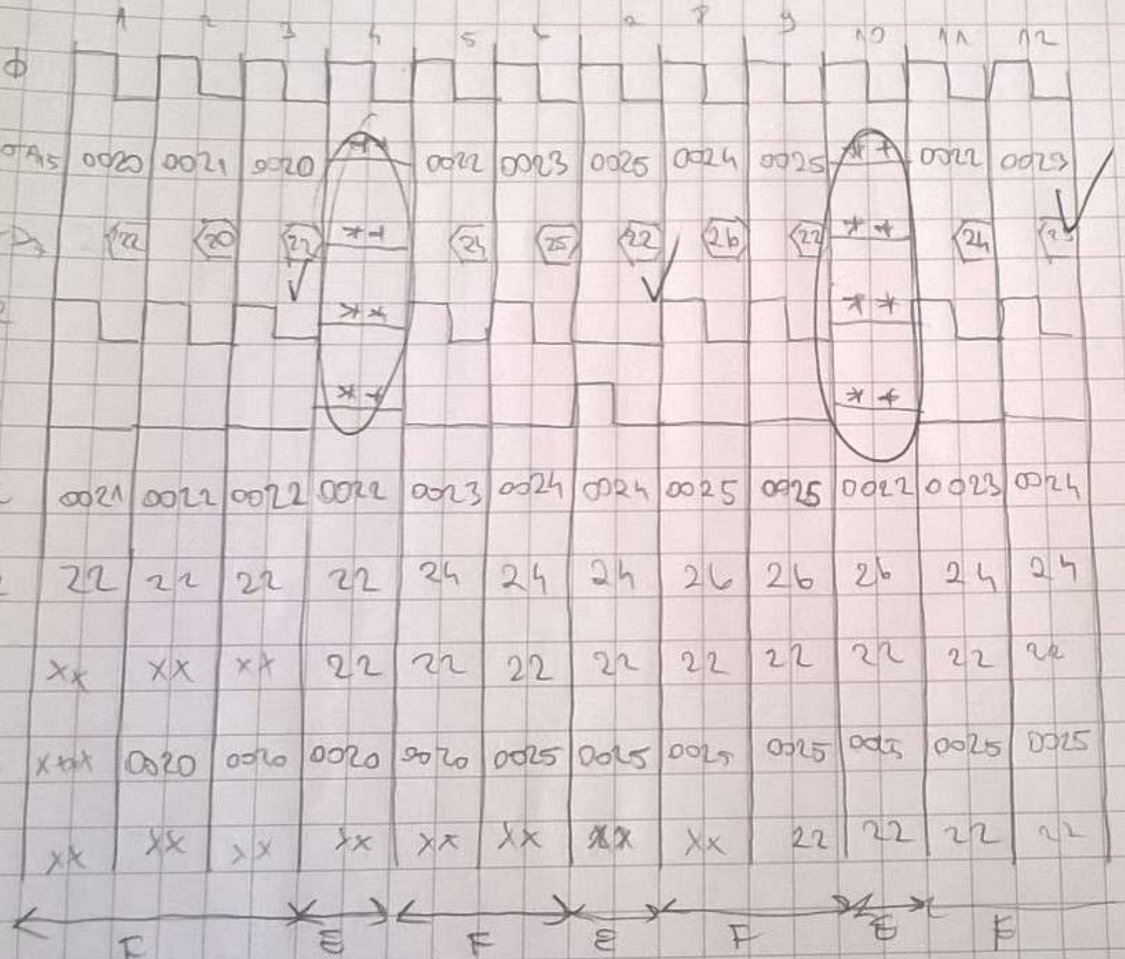
PODEŠNO PC=0020



0025
0026

$20 → prepisan sa $22 ! V A TAKTU ✓

TODELNO PC=0020



** → stanje visoke impedancije

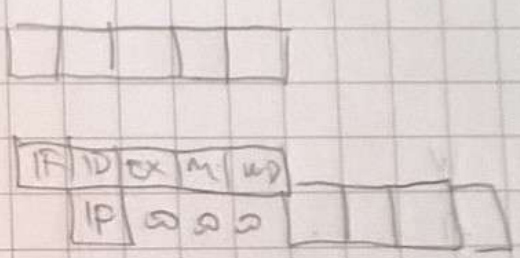
F → FETCH

E → EXECUTE

0021 $20
0022 $24
0023 $28

③ p=$4 ; p2=$5 q=$6

```
        beq   $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:   ...
        ...
        ...
```



NEOPTIMALNI

OPTIMALNI

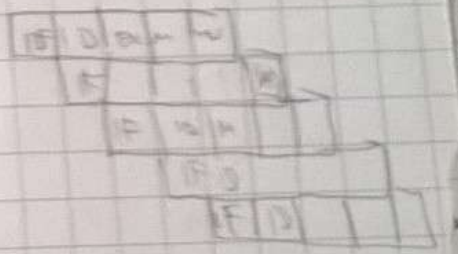
```
        bne   $4, $5 LOOP
EXIT:   ...
        ...
        ...
```

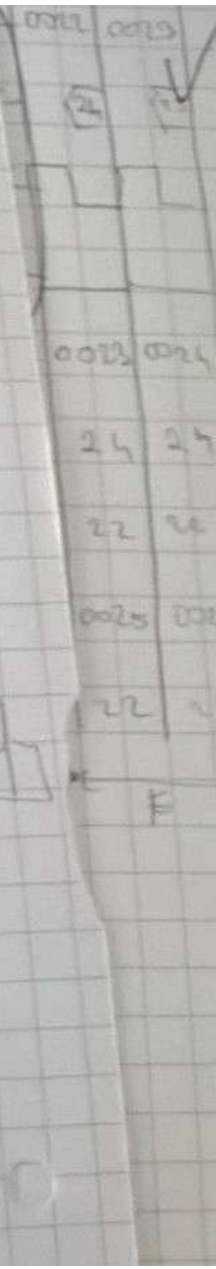
NEOPTIMALNI

```
        beq   $4, $5 EXIT     P=P_k ?
        nop
LOOP:   lw    r0, 0($4)       r0 = *p
        nop
        nop
        nop
        sw    r0, 0($6)       *q = *p

        addi  $4, $4, #4      p+1
        addi  $6, $6, #4      q+1

        bne   $4, $5 LOOP     P=P_k ?
        nop

EXIT:   ...
        ...
```

OPTIMALNI

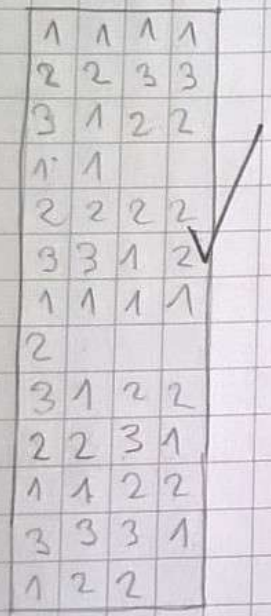
```
        beq   $4, $5 EXIT
        nop

LOOP:   lw    r0, 0($4)
        addi  $6, $6, #4
        addi  $4, $4, #4
        nop
        sw    r0, -4($6)

        bne   $4, $5 LOOP
        nop

EXIT:   ...
        ...
        ...
```



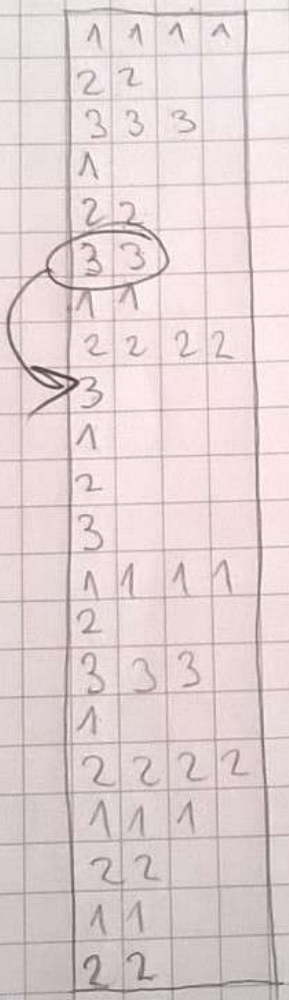


9

5. a) SMT



b) MT - finozrnata



c) MT - grubozrnata