PLC a SIMATIC 3a - Riešenia a programy:)

FC101

```
Block: FC101 as Ladder diagram
```

```
Network: 1
```

```
10.0 "packa0h" "pas>>"
```

Network: 2

FC101

Block: FC101 as STL

Network: 1

```
A "packa0h" I0.0
= "pas>>" Q8.5
```

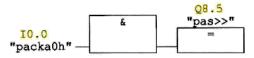
Network: 2

```
A "packalh" I0.1
= "pas<<" Q8.6
```

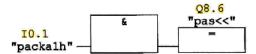
FC101

Block: FC101 as FBD

Network: 1



Network: 2



FC102

Block: FC102 as **Ladder diagram**

Network: 1

Block: FC102 as STL

Network: 1

A "packa0h" I0.0 = "pas>>" Q8.5 = "led0h" Q4.0

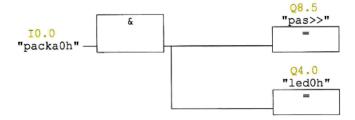
Network: 2

A "packa1h" 10.1 = "pas<<" Q8.6 = "led1h" Q4.1

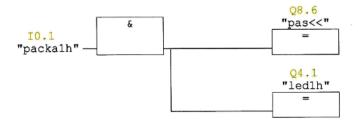
FC102

Block: FC102 as FBD

Network: 1



Network: 2



FC103

Block: FC103 as Ladder diagram

Network: 1

Block: FC103 as STL

Network: 1

```
A "packa0h" 10.0
A "packa1h" 10.1
= "pas>>" Q8.5
= "led0h" Q4.0
```

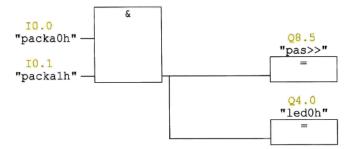
Network: 2

```
A "packa2h" 10.2
= "pas<<" Q8.6
```

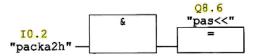
FC103

Block: FC103 as FBD

Network: 1



Network: 2



FC104

Block: FC104 as Ladder diagram

Network: 1

Network: 2

```
10.2
"packa2h"

10.3
"packa3h"

"packa3h"

"led1h"

()
```

FC104

Block: FC104 as STL

Network: 1

```
0 "packa0h" I0.0
0 "packa1h" I0.1
= "pas>>" Q8.5
= "led0h" Q4.0
```

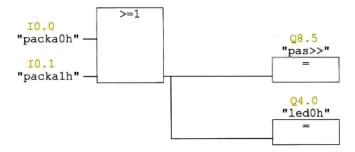
Network: 2

```
O "packa2h" IO.2
O "packa3h" IO.3
= "pas<<" Q8.6
= "led1h" Q4.1
```

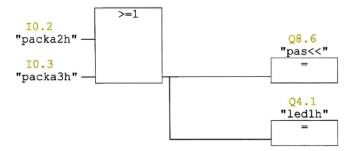
FC104

Block: FC104 as FBD

Network: 1



Network: 2



FC105

Block: FC105 as Ladder diagram

```
18.5
"induksenz
                                                Q8.5
                                               "pas>>"
   or1"
                                                (s)——
                                                Q8.6
                                               "pas<<"
                                                (R)-
                                                Q8.1
                                            "rozsvieth
                                                1"
                                                \langle s \rangle
                                                Q8.4
                                            "rozsvieth
                                                4"
                                                <r
```

```
18.0
                                       Q8.6
"optozavor
                                      "pas<<"
   a"
                                       -(s)---
                                       Q8.5
                                      "pas>>"
                                       ⟨R⟩—
                                       Q8.4
                                    "rozsvieth
                                       <s>—
                                       Q8.1
                                    "rozsvieth
                                       1"
                                       ⟨R}—
```

FC105

Block: FC105 as STL

Network: 1

Α	"induksenzor1"	I8. 5
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6
S	"rozsvieth1"	Q8.1
R	"rozsvieth4"	08.4

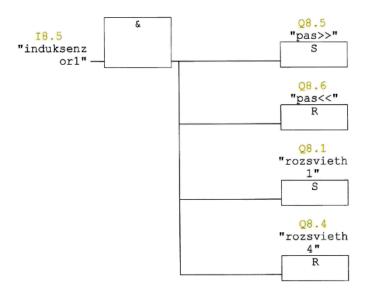
Network: 2

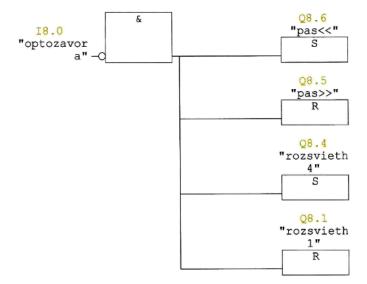
"optozavora"	18.0
"pas<<"	Q8.6
"pas>>"	Q8.5
"rozsvieth4"	Q8.4
"rozsvieth1"	Q8.1
	"pas<<" "pas>>" "rozsvieth4"

FC105

Block: FC105 as FBD

Network: 1



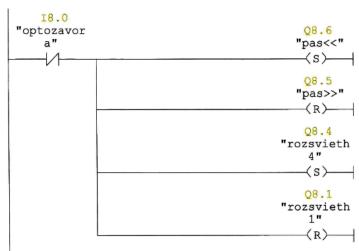


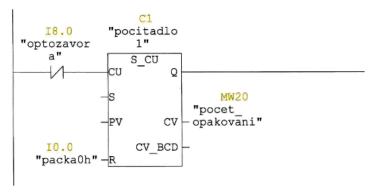
Block: FC106 as Ladder diagram

Network: 1

```
18.5
"induksenz
                                           Q8.5
  or1"
                                          "pas>>"
                                           (s)—
   4 +
                                           Q8.6
                                          "pas<<"
                                           <<u>R</u>>—−
                                           Q8.1
                                       "rozsvieth
                                           <s>—
                                           Q8.4
                                       "rozsvieth
                                           4"
                                           (R)—
```

Network: 2





Block: FC106 as STL

Network: 1

A	"induksenzor1"	18.5
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6
S	"rozsvieth1"	Q8.1
R	"rozsvieth4"	08.4

Network: 2

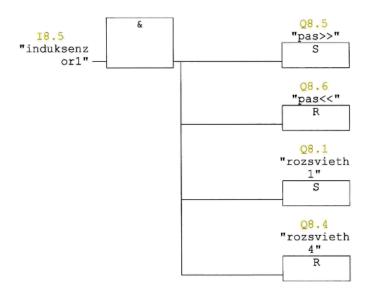
AN	"optozavora"	18.0
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5
S	"rozsvieth4"	Q8.4
R	"rozsvieth1"	Q8.1

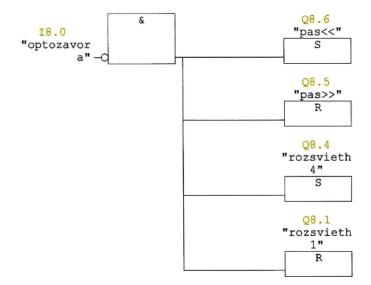
Network: 3

AN	"optozavora"	18.0
CU	"pocitadlo1"	C1
BLD	101	
NOP	0	
NOP	0	
A	"packa0h"	10.0
R	"pocitadlo1"	C1
L	"pocitadlo1"	C1
T	"pocet opakovani"	MW20
NOP	0	
NOP	0	

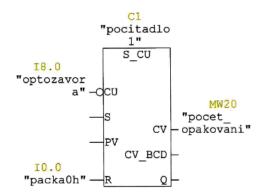
FC106

Block: FC106 as FBD





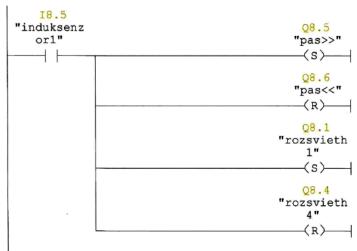
Network: 3



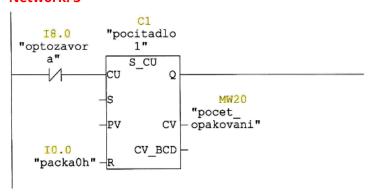
FC107

Block: FC107 as Ladder diagram

Network: 1



```
I8.0
"optozavor
                                          Q8.6
   a"
                                         "pas<<"
                                         (s)—
                                          Q8.5
                                         "pas>>"
                                          <a>(R)—</a>
                                          Q8.4
                                      "rozsvieth 4"
                                          <s>—
                                          Q8.1
                                       "rozsvieth
                                          1"
                                          (R)—
```



Network: 4

FC107

Block: FC107 as STL

Network: 1

Α	"induksenzor1"	I8. 5
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6
S	"rozsvieth1"	Q8.1
R	"rozsvieth4"	Q8.4

Network: 2

AN	"optozavora"	18.0
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5
S	"rozsvieth4"	Q8.4
R	"rozsvieth1"	Q8.1

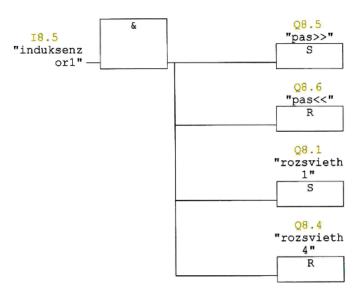
```
"optozavora"
"pocitadlo1"
AN
                                I8.0
CU
                                C1
BLD
        101
NOP
       0
NOP
        0
Α
        "packa0h"
                                10.0
        "pocitadlo1"
R
                                C1
       "pocitadlo1"
"pocet_opakovani"
0
L
                                C1
                               MW20
Т
NOP
NOP
```

L	"pocet_opakovani"	MW20
L	5	
==I		
R	"pas>>"	Q8.5
R	"pas>>"	Q8.5

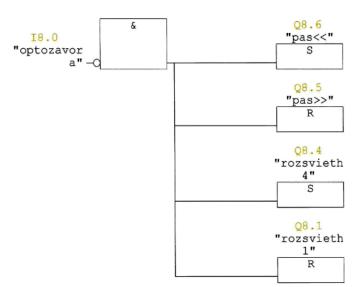
FC107

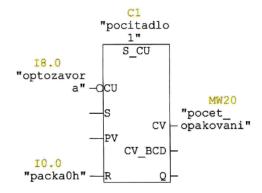
Block: FC107 as FBD

Network: 1



Network: 2





```
L "pocet_opakovani" MW20
L 5
==I
R "pas>>" Q8.5
R "pas>>" Q8.5
```

FC108

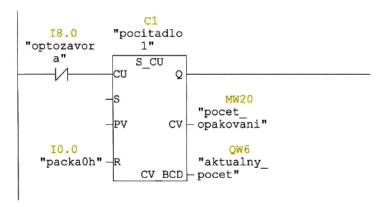
Block: FC108 as Ladder diagram

Network: 1

```
18.5
"induksenz
                                         Q8.5
                                        "pas>>"
  or1"
                                         √s}—
                                         Q8.6
                                        "pas<<"
                                         (R)—
                                         Q8.1
                                      "rozsvieth
                                          1"
                                          (s)-
                                         Q8.4
                                      "rozsvieth
                                          4"
                                          (R)-
```

Network: 2

```
18.0
"optozavor
                                       Q8.6
                                       "pas<<"
   a"
                                       <s>—
                                       Q8.5
                                       "pas>>"
                                        (R)—
                                       Q8.4
                                    "rozsvieth
                                        4"
                                        (s)—
                                       Q8.1
                                     "rozsvieth
                                        1."
                                        ⟨R}—
```



L L	"pocet_opakovani" 5	MW20
==I		
R	"pas>>"	Q8.5
R	"pas>>"	08.5

FC108

Block: FC108 as STL

Network: 1

Α	"induksenzor1"	I8.5
S	"pas>>"	Q8.5
R	"pas<<"	Q8.6
S	"rozsvieth1"	Q8.1
R	"rozsvieth4"	08.4

Network: 2

AN	"optozavora"	18.0
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5
S	"rozsvieth4"	Q8.4
R	"rozswieth1"	08 1

Network: 3

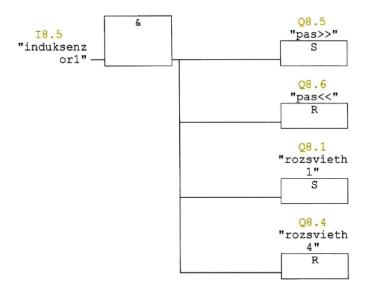
AN	"optozavora"	18.0
CU	"pocitadlo1"	C1
BLD	101	
NOP	0	
NOP	0	
A	"packa0h"	10.0
R	"pocitadlo1"	C1
L	"pocitadlo1"	C1
T	"pocet opakovani"	MW20
LC	"pocitadlo1"	C1
T	"aktualny pocet"	QW6
NOP	0	

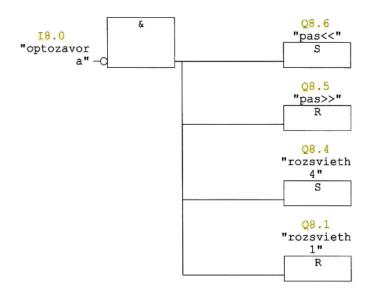
Network: 4

L	"pocet_opakovani"	MW20
L	5 — -	
== I		
R	"pas>>"	Q8.5
R	"pas>>"	Q8.5

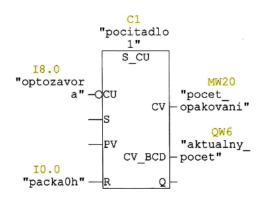
FC108

Block: FC108 as FBD





Network: 3



"pocet_opakovani"	MW20
5	
"pas>>"	Q8.5
"pas>>"	Q8.5
	"pas>>"