

PLC a SIMATIC 3a - Riešenia a programy :)

FC101

Block: FC101 as **Ladder diagram**

Network: 1



Network: 2



FC101

Block: FC101 as **STL**

Network: 1

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

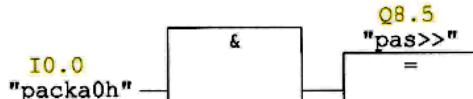
Network: 2

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

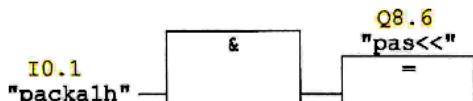
FC101

Block: FC101 as **FBD**

Network: 1



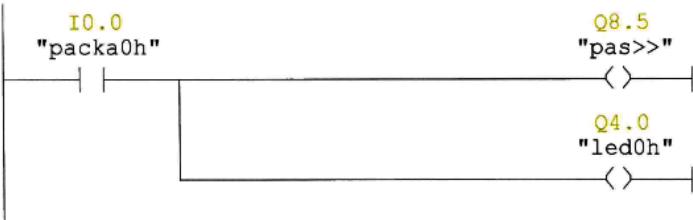
Network: 2



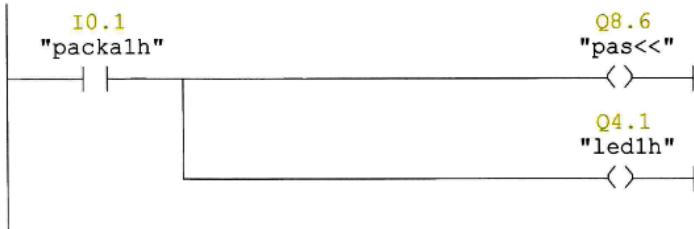
FC102

Block: FC102 as **Ladder diagram**

Network: 1



Network: 2



FC102

Block: FC102 as **STL**

Network: 1

```

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

Network: 2

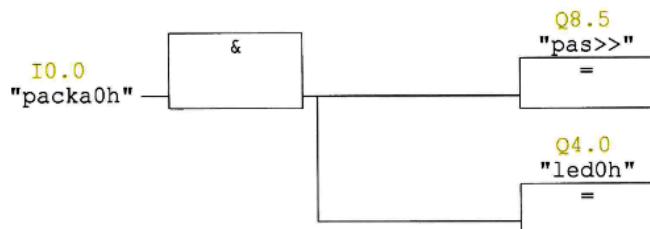
```

A      "packalh"  I0.1
=      "pas<<"  Q8.6
=      "led1h"    Q4.1
  
```

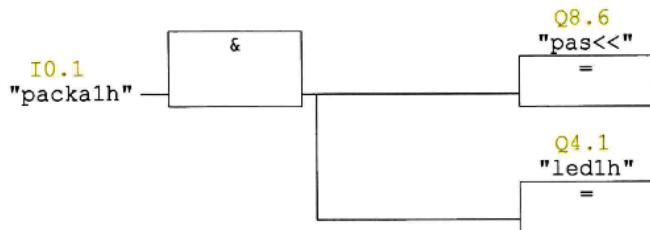
FC102

Block: FC102 as **FBD**

Network: 1



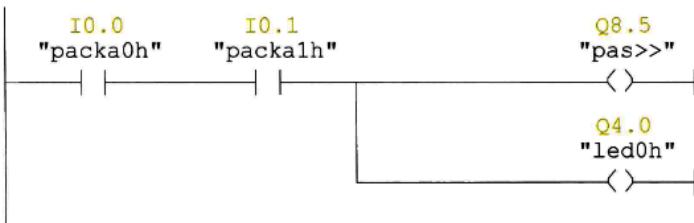
Network: 2



FC103

Block: FC103 as **Ladder diagram**

Network: 1



Network: 2



FC103

Block: FC103 as **STL**

Network: 1

```

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

Network: 2

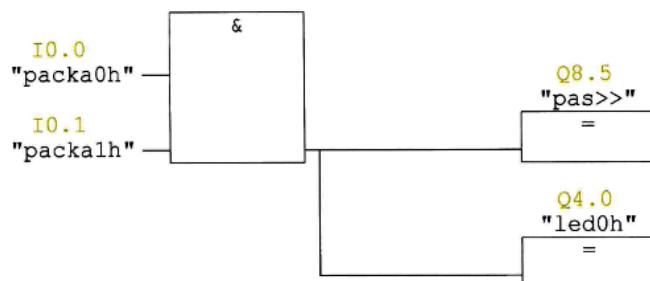
```

A      "packa2h"  I0.2
=      "pas<<"  Q8.6
  
```

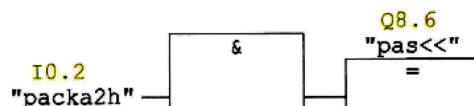
FC103

Block: FC103 as **FBD**

Network: 1



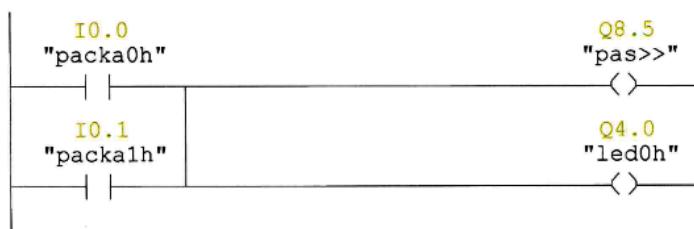
Network: 2



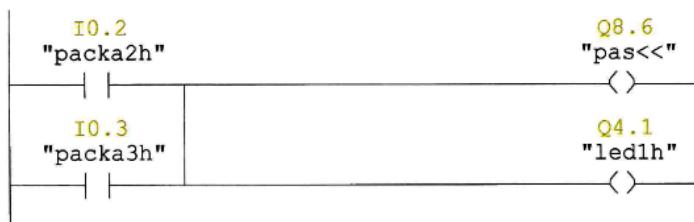
FC104

Block: FC104 as **Ladder diagram**

Network: 1



Network: 2



FC104

Block: FC104 as STL

Network: 1

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

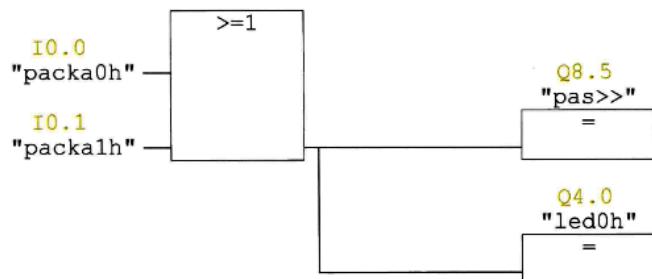
Network: 2

```
O  "packa2h"  I0.2
O  "packa3h"  I0.3
=  "pas<<"  Q8.6
=  "led1h"    Q4.1
```

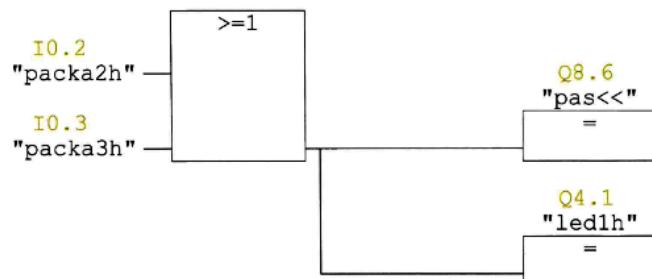
FC104

Block: FC104 as FBD

Network: 1



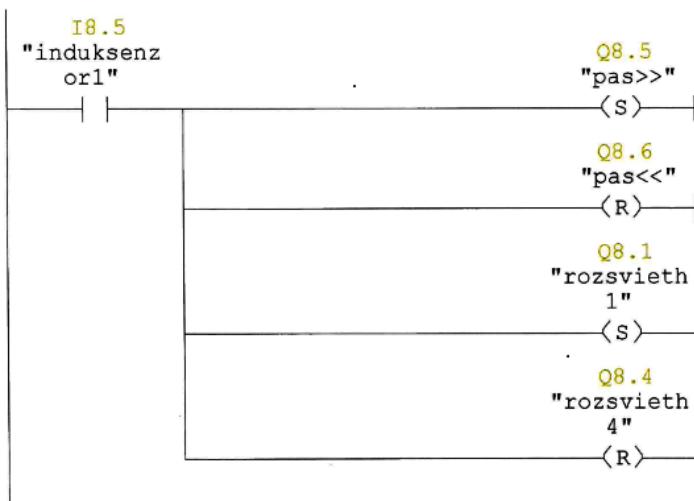
Network: 2



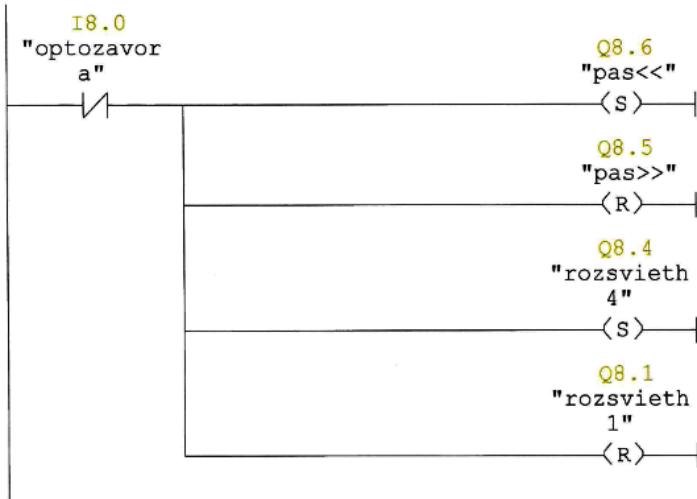
FC105

Block: FC105 as Ladder diagram

Network: 1



Network: 2



FC105

Block: FC105 as STL

Network: 1

```
A "induksenzor1" I8.5
S "pas>>" Q8.5
R "pas<<" Q8.6
S "rozsieth1" Q8.1
R "rozsieth4" Q8.4
```

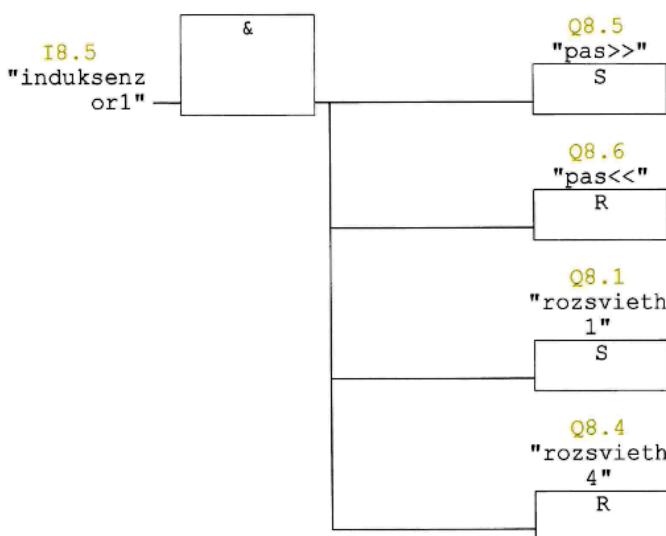
Network: 2

```
AN "optozavora" I8.0
S "pas<<" Q8.6
R "pas>>" Q8.5
S "rozsieth4" Q8.4
R "rozsieth1" Q8.1
```

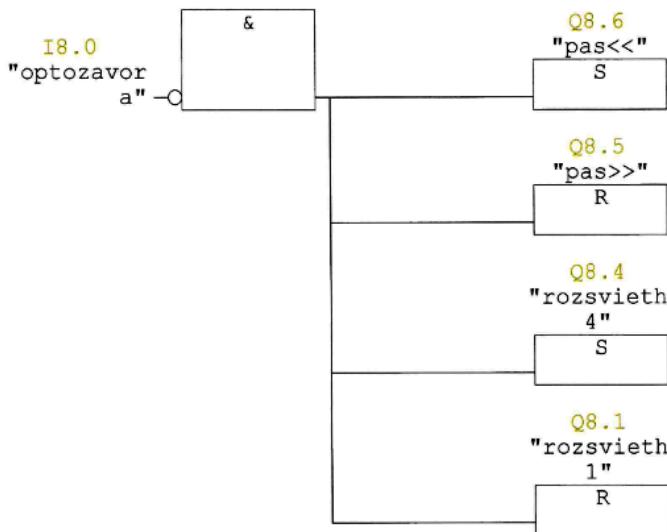
FC105

Block: FC105 as FBD

Network: 1



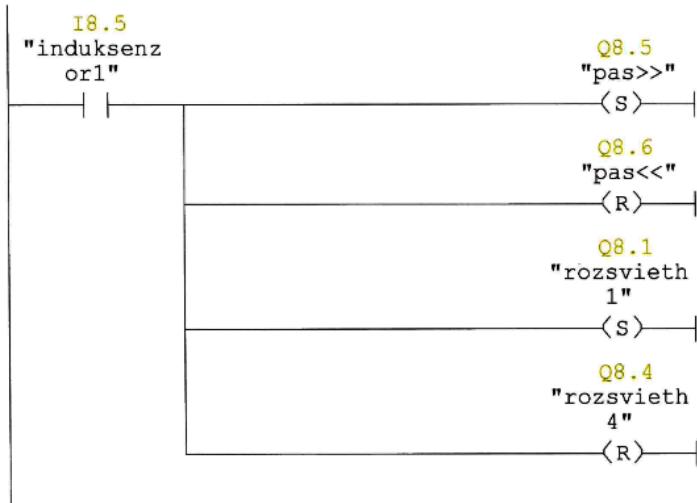
Network: 2



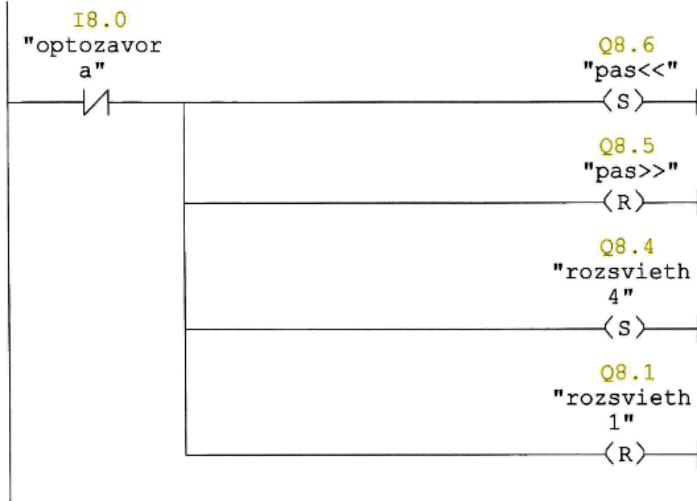
FC106

Block: FC106 as Ladder diagram

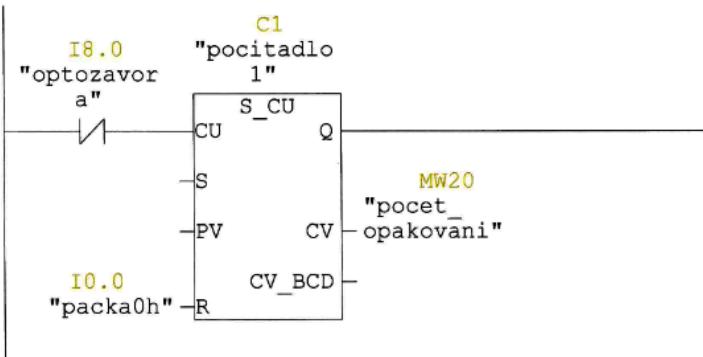
Network: 1



Network: 2



Network: 3



FC106

Block: FC106 as **STL**

Network: 1

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

Network: 2

AN	"optozavora"	I8.0
S	"pas<<"	Q8.6
R	"pas>>"	Q8.5
S	"rozsvieth4"	Q8.4
R	"rozsvieth1"	Q8.1

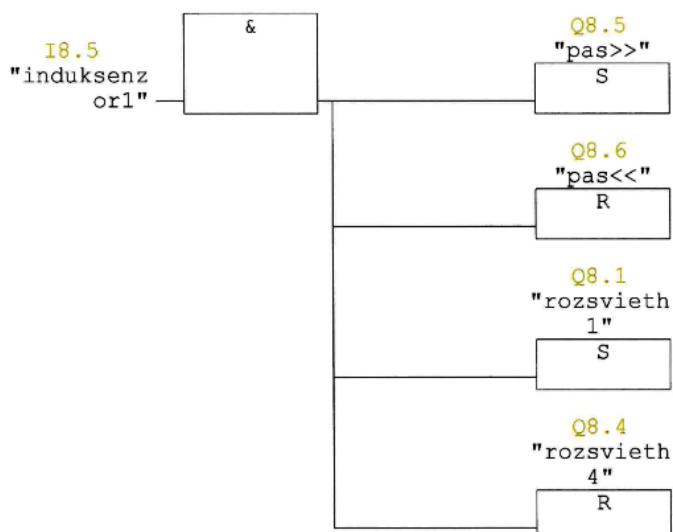
Network: 3

AN	"optozavora"	I8.0
CU	"pocitadlol"	C1
BLD	101	
NOP	0	
NOP	0	
A	"packa0h"	I0.0
R	"pocitadlol"	C1
L	"pocitadlol"	C1
T	"pocet_opakovani"	MW20
NOP	0	
NOP	0	

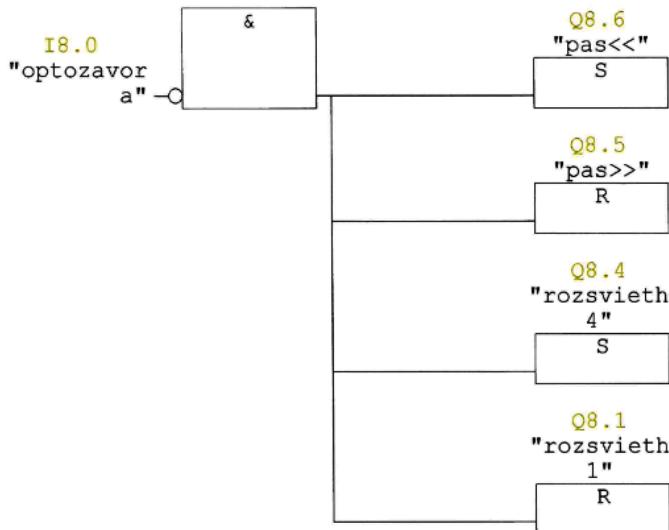
FC106

Block: FC106 as FBD

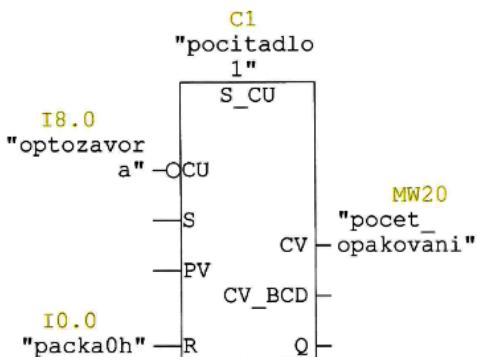
Network: 1



Network: 2



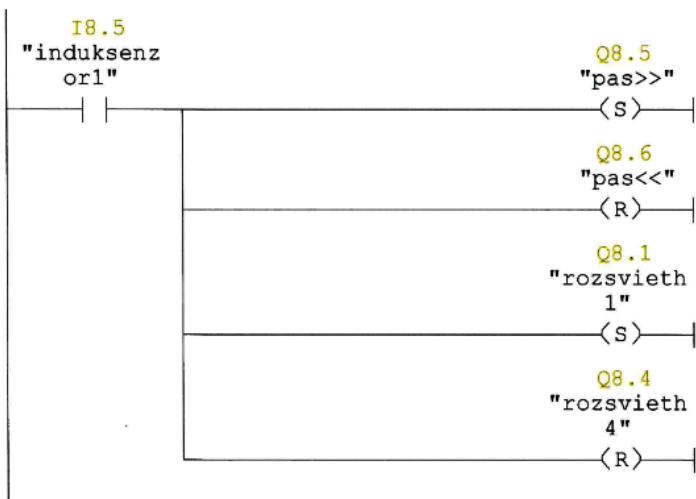
Network: 3



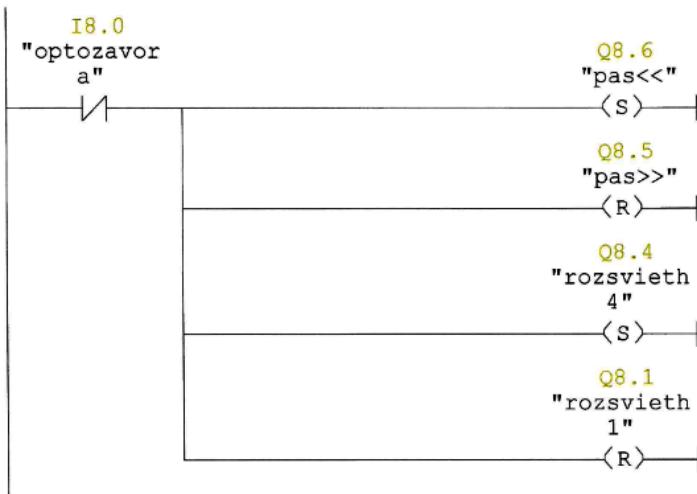
FC107

Block: FC107 as Ladder diagram

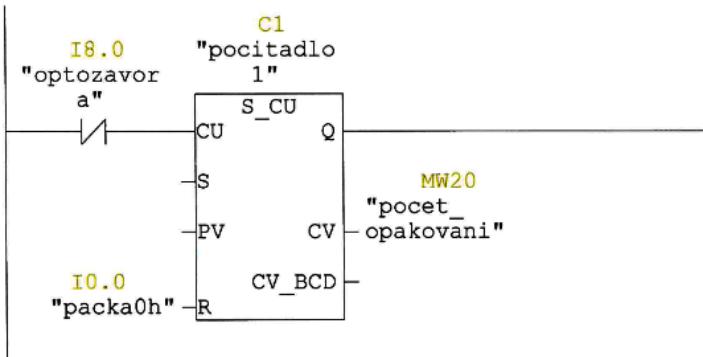
Network: 1



Network: 2



Network: 3



Network: 4

```

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

FC107

Block: FC107 as STL

Network: 1

```

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

Network: 2

```

    AN    "optozavora"    I8.0
    S    "pas<<"        Q8.6
    R    "pas>>"        Q8.5
    S    "rozsvieth4"      Q8.4
    R    "rozsvieth1"      Q8.1
    
```

Network: 3

```

AN  "optozavora"      I8.0
CU  "pocitadlo1"      C1
BLD 101
NOP 0
NOP 0
A   "packa0h"          I0.0
R   "pocitadlo1"      C1
L   "pocitadlo1"      C1
T   "pocet_opakovani"  MW20
NOP 0
NOP 0

```

Network: 4

```

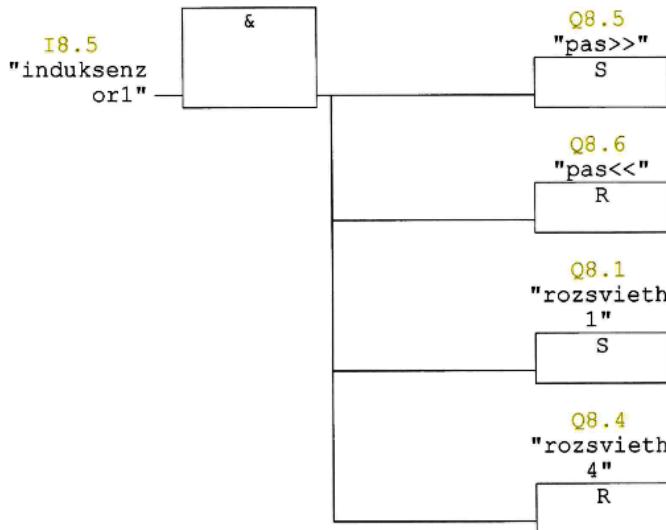
L   "pocet_opakovani"  MW20
L   5
==I
R   "pas>>"          Q8.5
R   "pas>>"          Q8.5

```

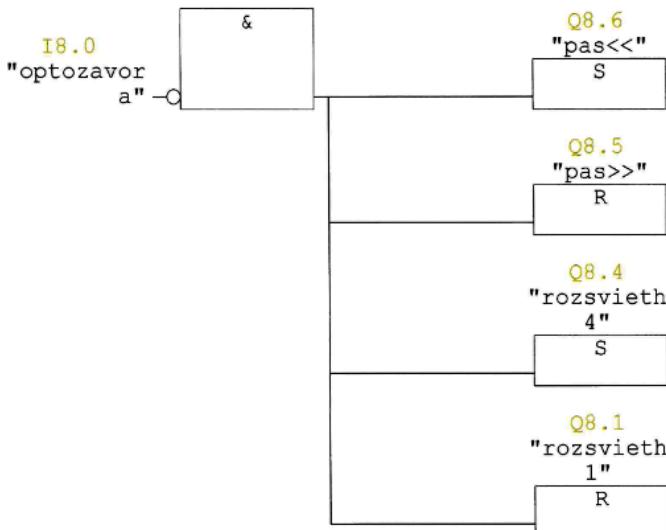
FC107

Block: FC107 as FBD

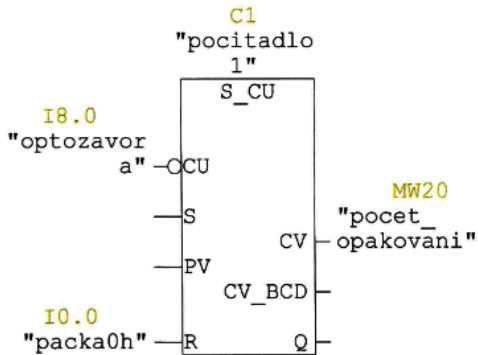
Network: 1



Network: 2



Network: 3



Network: 4

```

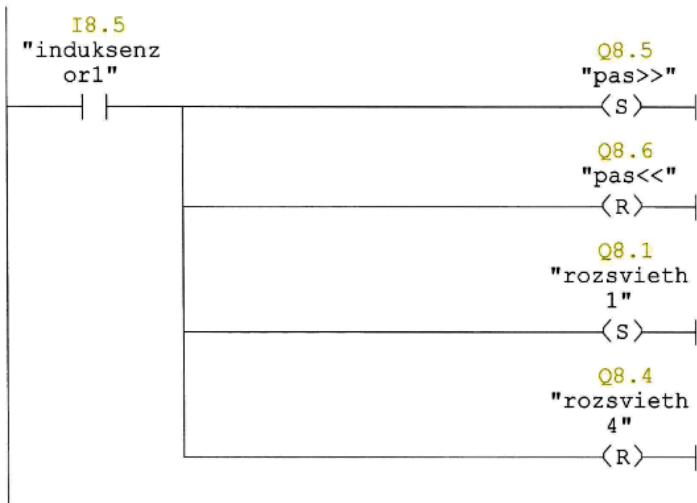
L      "pocet_opakovani"  MW20
L      5
==I
R      "pas>>"          Q8.5
R      "pas>>"          Q8.5

```

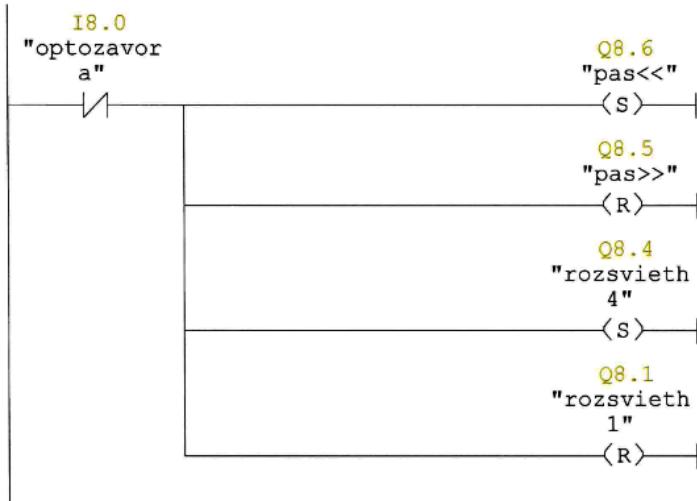
FC108

Block: FC108 as Ladder diagram

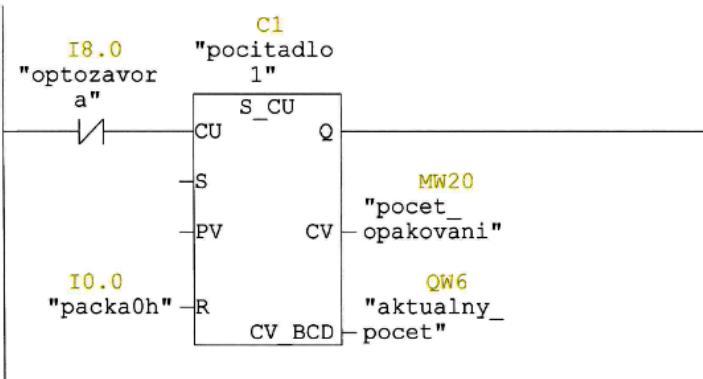
Network: 1



Network: 2



Network: 3



Network: 4

```

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

```

FC108

Block: FC108 as STL

Network: 1

```

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

```

Network: 2

```

AN    "optozavora"    I8.0
S    "pas<<"        Q8.6
R    "pas>>"        Q8.5
S    "rozsvieth4"      Q8.4
R    "rozsvieth1"      Q8.1

```

Network: 3

```

AN    "optozavora"    I8.0
CU    "pocitadlo1"     C1
BLD   101
NOP   0
NOP   0
A     "packa0h"        I0.0
R     "pocitadlo1"     C1
L     "pocitadlo1"     C1
T     "pocet_opakovani" MW20
LC    "pocitadlo1"     C1
T     "aktualny_pocet"  QW6
NOP   0

```

Network: 4

```

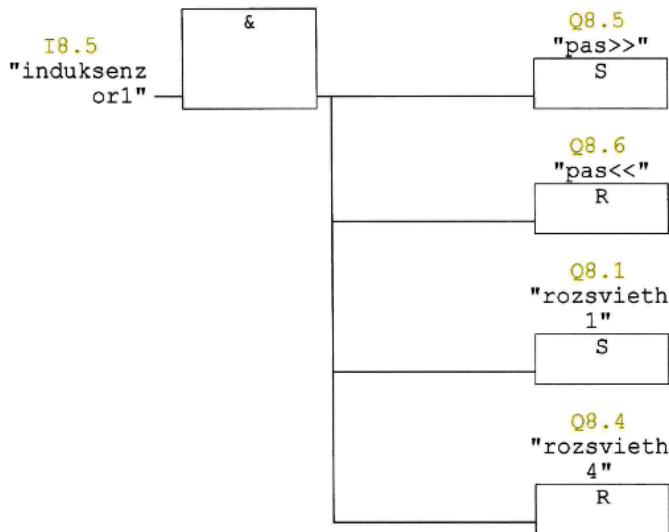
L      "pocet_opakovani"  MW20
L      5
==I
R      "pas>>"          Q8.5
R      "pas>>"          Q8.5

```

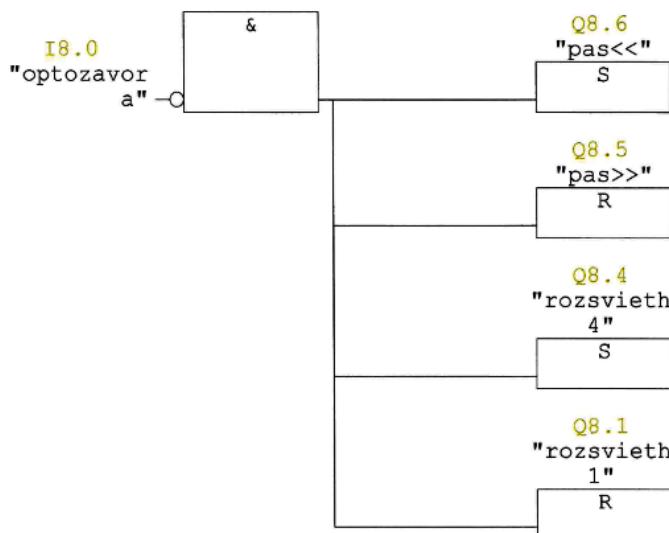
FC108

Block: FC108 as FBD

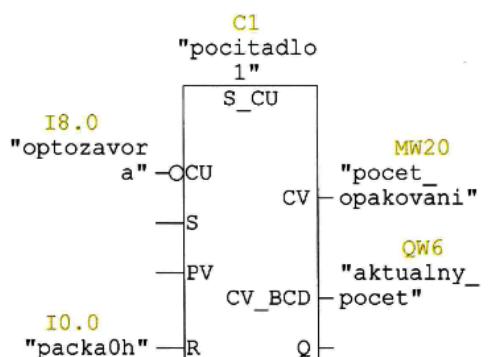
Network: 1



Network: 2



Network: 3



Network: 4

```

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

```