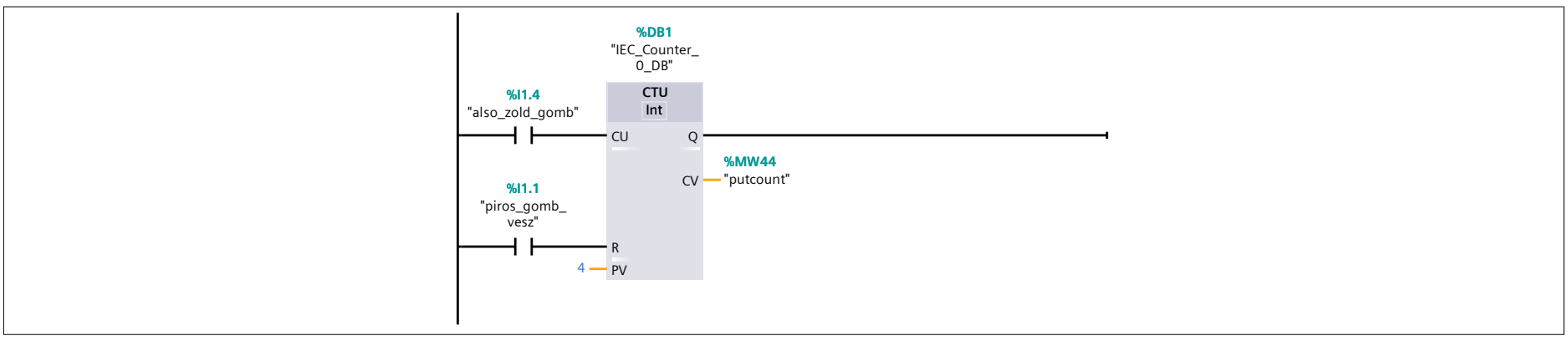
Main [OB1]

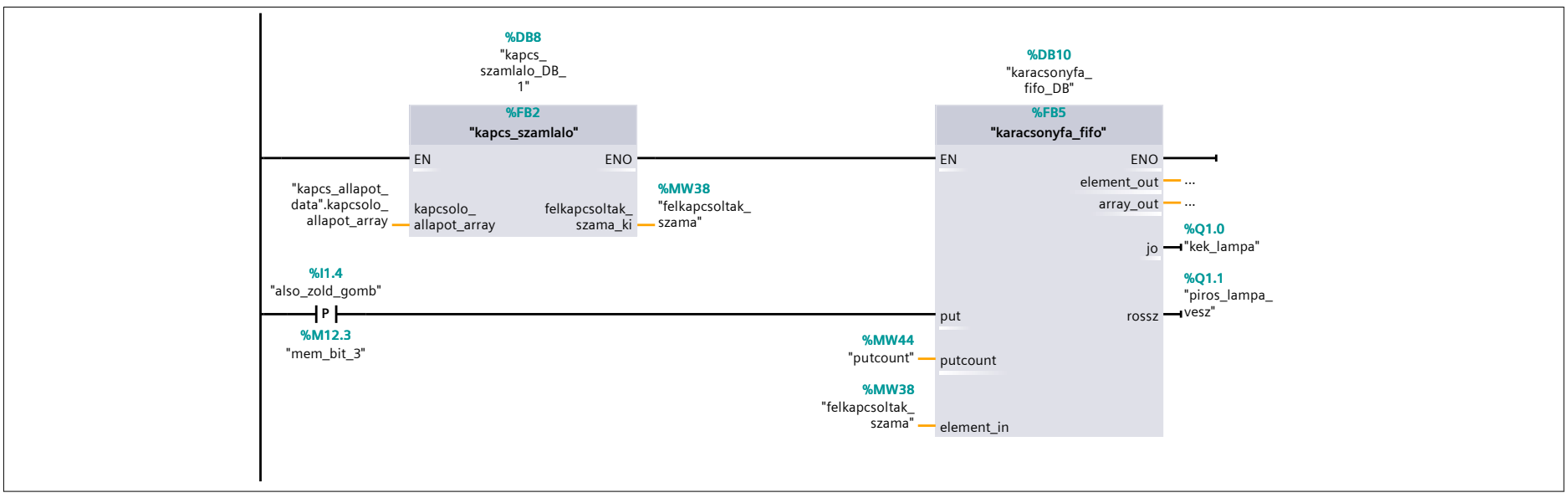
Main Properties							
General							
Name	Main	**Number**	1	**Type**	OB	**Language**	LAD
Numbering	automatic						
Information							
Title	"Main Program Sweep (Cycle)"	**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value
Input		
Initial_Call	Bool	
Remanence	Bool	
Temp		
Constant		

Network 1:



Network 2:



kapcs_szamlalo [FB2]

kapcs_szamlalo Properties							
General							
Name	kapcs_szamlalo	**Number**	2	**Type**	FB	**Language**	SCL
Numbering	automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
▼ Input			
▼ kapcsolo_allapot_array	Array[0..3] of Bool		Non-retain
kapcsolo_allapot_array[0]	Bool	false	Non-retain
kapcsolo_allapot_array[1]	Bool	false	Non-retain
kapcsolo_allapot_array[2]	Bool	false	Non-retain
kapcsolo_allapot_array[3]	Bool	false	Non-retain
▼ Output			
felkapcsoltak_szama_ki	Int	0	Non-retain
InOut			
Static			
▼ Temp			
felkapcsoltak_szama_temp	Int		
i	Int		
Constant			

```
0001 FOR #i := 0 TO 3 DO
0002     // Statement section FOR
0003     IF #kapcsolo_allapot_array[#i] = TRUE THEN
0004         // Statement section IF
0005         #felkapcsoltak_szama_temp := #felkapcsoltak_szama_temp + 1;
0006     END_IF;
0007 END_FOR;
0008
0009 #felkapcsoltak_szama_ki := #felkapcsoltak_szama_temp;
```

karacsonyfa_fifo [FB5]

karacsonyfa_fifo Properties							
General							
Name	karacsonyfa_fifo	**Number**	5	**Type**	FB	**Language**	SCL
Numbering	automatic						
Information							
Title		**Author**		**Comment**		**Family**	
Version	0.1	**User-defined ID**					

Name	Data type	Default value	Retain
Input			
put	Bool	false	Non-retain
putcount	Int	0	Non-retain
element_in	Int	0	Non-retain
Output			
element_out	Int	0	Non-retain
array_out	Array[0..3] of Int		Non-retain
array_out[0]	Int	0	Non-retain
array_out[1]	Int	0	Non-retain
array_out[2]	Int	0	Non-retain
array_out[3]	Int	0	Non-retain
jo	Bool	false	Non-retain
rossz	Bool	false	Non-retain
InOut			
Static			
buffer	Array[0..3] of Int		Non-retain
buffer[0]	Int	0	Non-retain
buffer[1]	Int	0	Non-retain
buffer[2]	Int	0	Non-retain
buffer[3]	Int	0	Non-retain
Temp			
segment_to_shift	Array[0..2] of Int		
segment_to_shift[0]	Int		
segment_to_shift[1]	Int		
segment_to_shift[2]	Int		
i	Int		
j	Int		
k	Int		
Constant			

```
0001 IF #putcount MOD 4 =0  THEN
0002     FOR #j := 0 TO 3 DO
0003         IF #array_out[#j] = 0 OR #array_out[#j] = 4 THEN
0004             #rossz := TRUE;
0005             #jo := FALSE;
0006         ELSE
0007             #jo := TRUE;
0008             #rossz := false;
0009         END_IF;
0010     END_FOR;
0011
0012 ELSE
0013     #jo := FALSE;
0014     #rossz := FALSE;
0015 END_IF;
0016
0017 IF #put = TRUE THEN
0018
0019     IF #putcount = 0 THEN
0020         FOR #k := 0 TO 3 DO
0021             #array_out[#k] := 0;
0022         END_FOR;
0023     END_IF;
0024
0025     FOR #i := 0 TO 2 DO
0026         #segment_to_shift[#i] := #buffer[#i];
0027     END_FOR;
0028
0029     #buffer[0] := #element_in;
0030     #element_out := #buffer[3]; //utolso elem kipotyog
0031
0032     FOR #i := 1 TO 3 DO
0033
0034         #buffer[#i] := #segment_to_shift[#i - 1];
0035     END_FOR;
0036
0037     #array_out := #buffer;
0038
0039 END_IF;
```