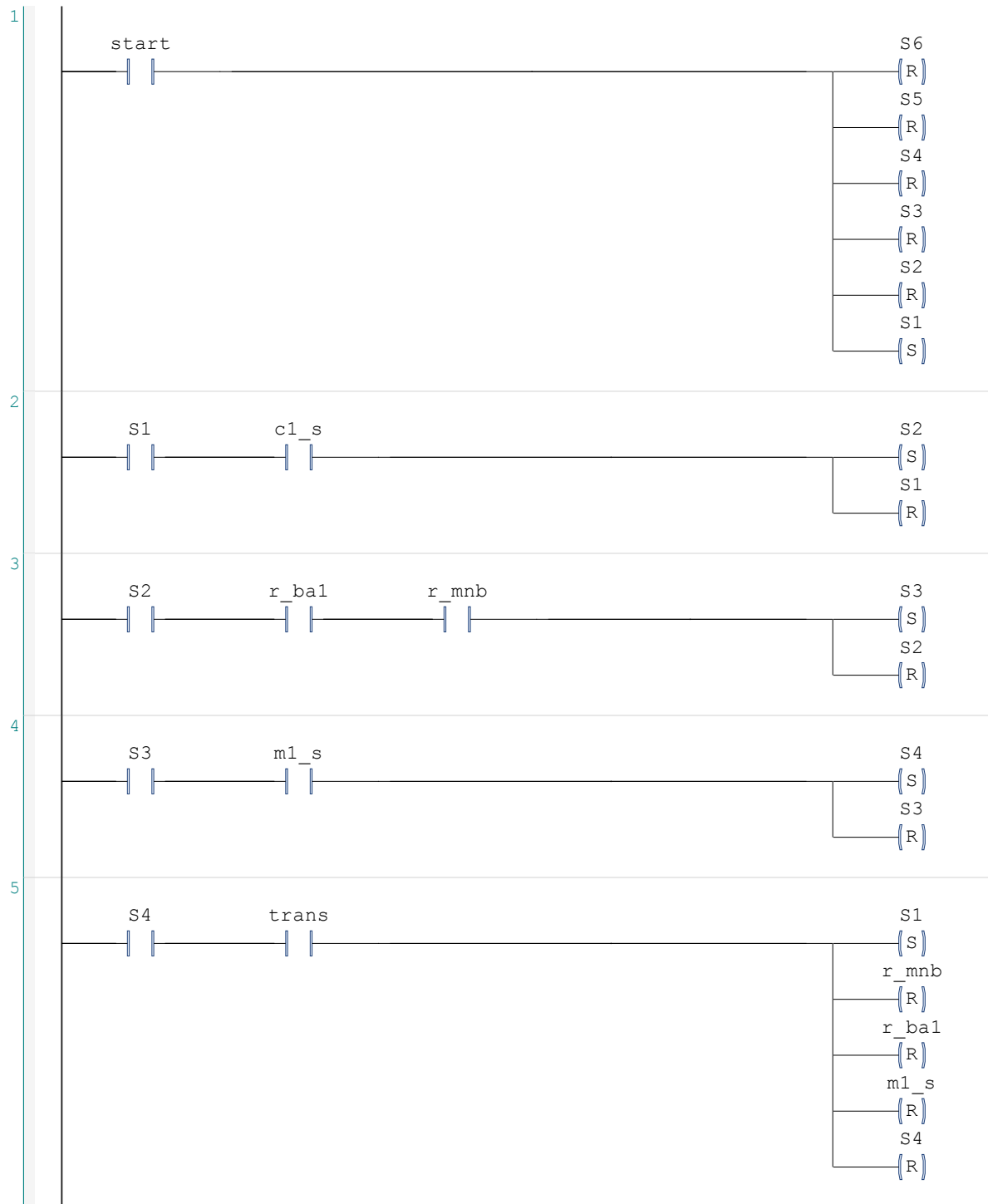
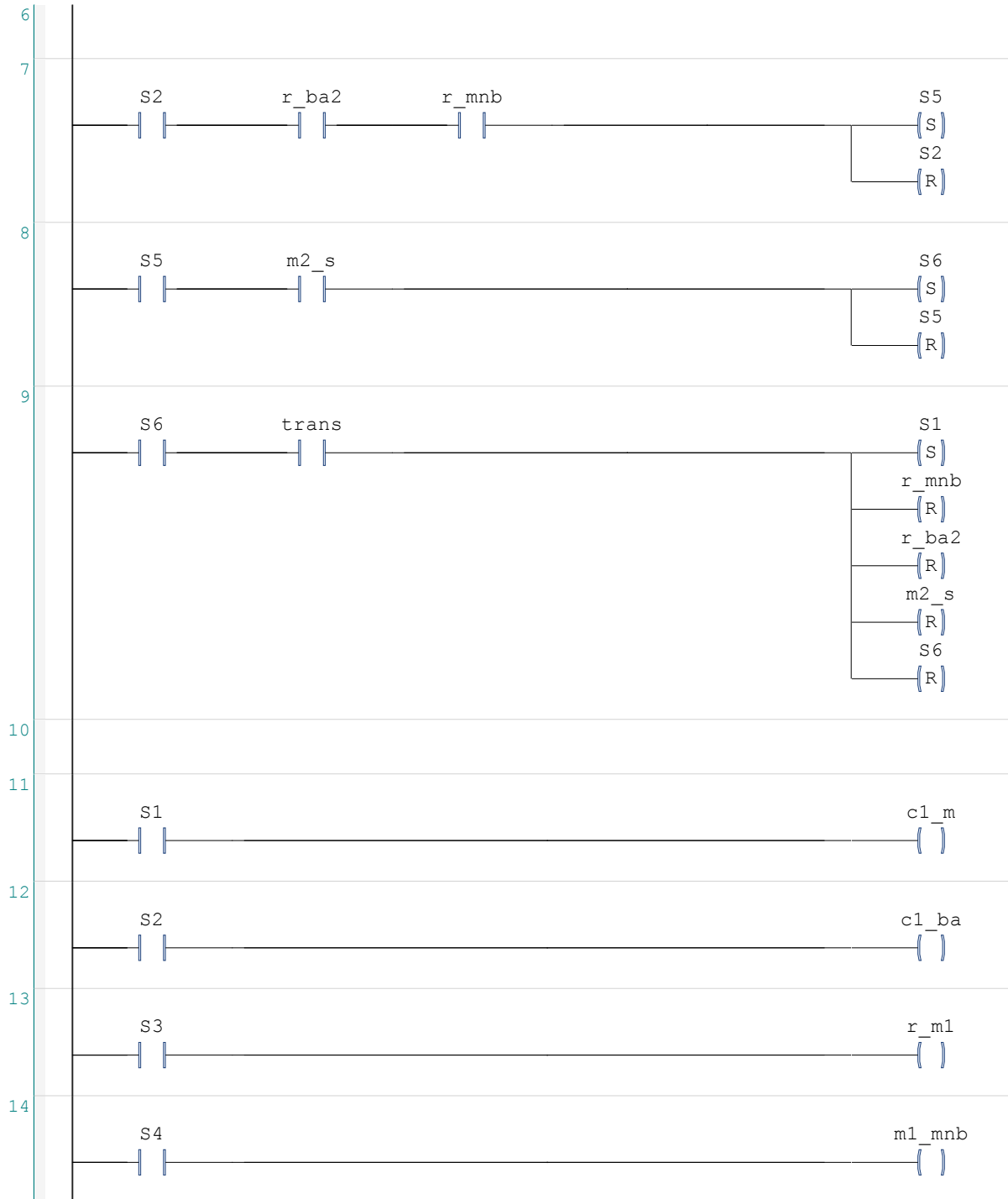


```
1  PROGRAM Main
2  VAR
3
4      (* Inputs *)
5      start : BOOL ; (* For starting the process*)
6      c1_s : BOOL ; (* Sensor of the conveyor *)
7      r_mnb : BOOL ; (* Signal from robot controller telling that robot is ready to
                        take a workpiece - not busy *)
8      r_ba1 : BOOL ; (* Signal from robot controller telling that the workpiece is
                        available to be loaded to M1 *)
9      r_ba2 : BOOL ; (* Signal from robot controller telling that the workpiece is
                        available to be loaded to M2 *)
10     m1_s : BOOL ; (* Signal from M1 controller telling that the workpiece is present
                     in the M1 *)
11     m2_s : BOOL ; (* Signal from M2 controller telling that the workpiece is present
                     in the M2 *)
12     trans : BOOL ; (* Signal from M1 or M2 controller telling that the workpiece is
                       transfered *)
13
14
15
16     (* Outputs *)
17     c1_m : BOOL ; (* Motor of the conveyor *)
18     c1_ba : BOOL ; (* Signal telling the robot controller that the workpiece is
                       available *)
19     r_m1 : BOOL ; (* Signal telling the robot that the workpiece should be unloaded
                     to the M1 - used when unloading C1 to tell robot where the robot should proceed
                     with the workpiece *)
20     r_m2 : BOOL ; (* Signal telling the robot that the workpiece should be unloaded
                     to the M2 - used when unloading C1 to tell robot where the robot should proceed
                     with the workpiece *)
21     m1_mnb : BOOL ; (* Signal telling the robot that the workpiece can be received by
                       M1 *)
22     m2_mnb : BOOL ; (* Signal telling the robot that the workpiece can be received by
                       M2 *)
23
24     (* States *)
25     S1 , S2 , S3 , S4 , S5 , S6 : BOOL ;
26
27 END_VAR
28
```





POU: Main

