

Quiz Display

A PLC program is developed to identify which participant has pressed the push button first. The lamp of the participant who pressed the pushbutton first, flashes at 1Hz and the lamps of the participants who pressed the button subsequently, light up steadily until reset by the quiz master. A buzzer (audio alarm) is activated as long as the participant who makes the first attempt, keeps his push button pressed.

Each participant is provided with a virtual digital display which indicates whether the participant pressed the push button first, second, or third. The virtual display is invisible if a participant does not press the push button.



POU x



Task_1



POU_XOR



PLC_PRG



Visualization

1



Configuration

Priority (0..31): 1 Task group IEC-Tasks

Type

Cyclic Interval (e.g. t#200ms) 500 ms

Watchdog

☐ Enable

Time (e.g. t#200ms) ms

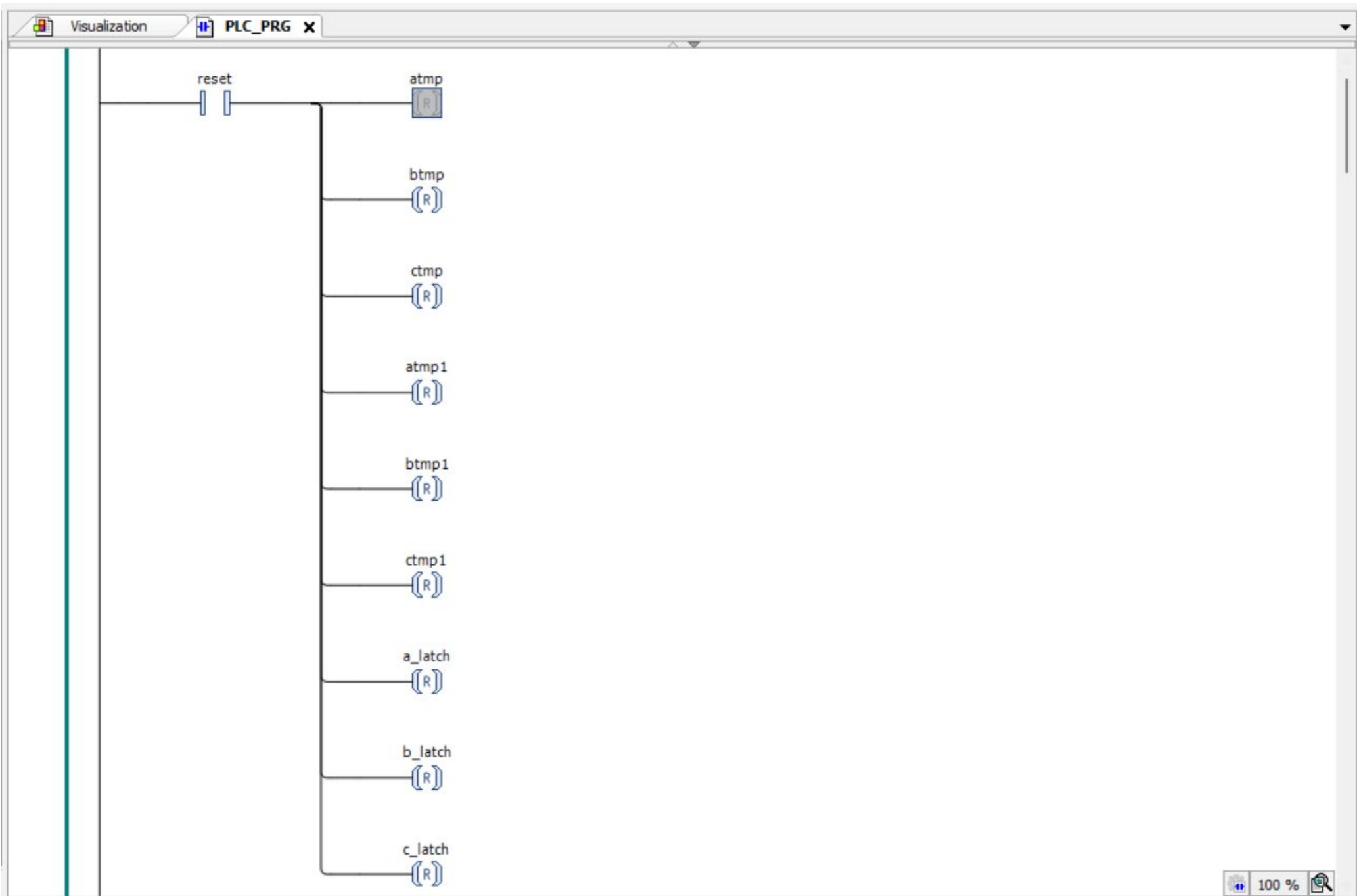
Sensitivity 1

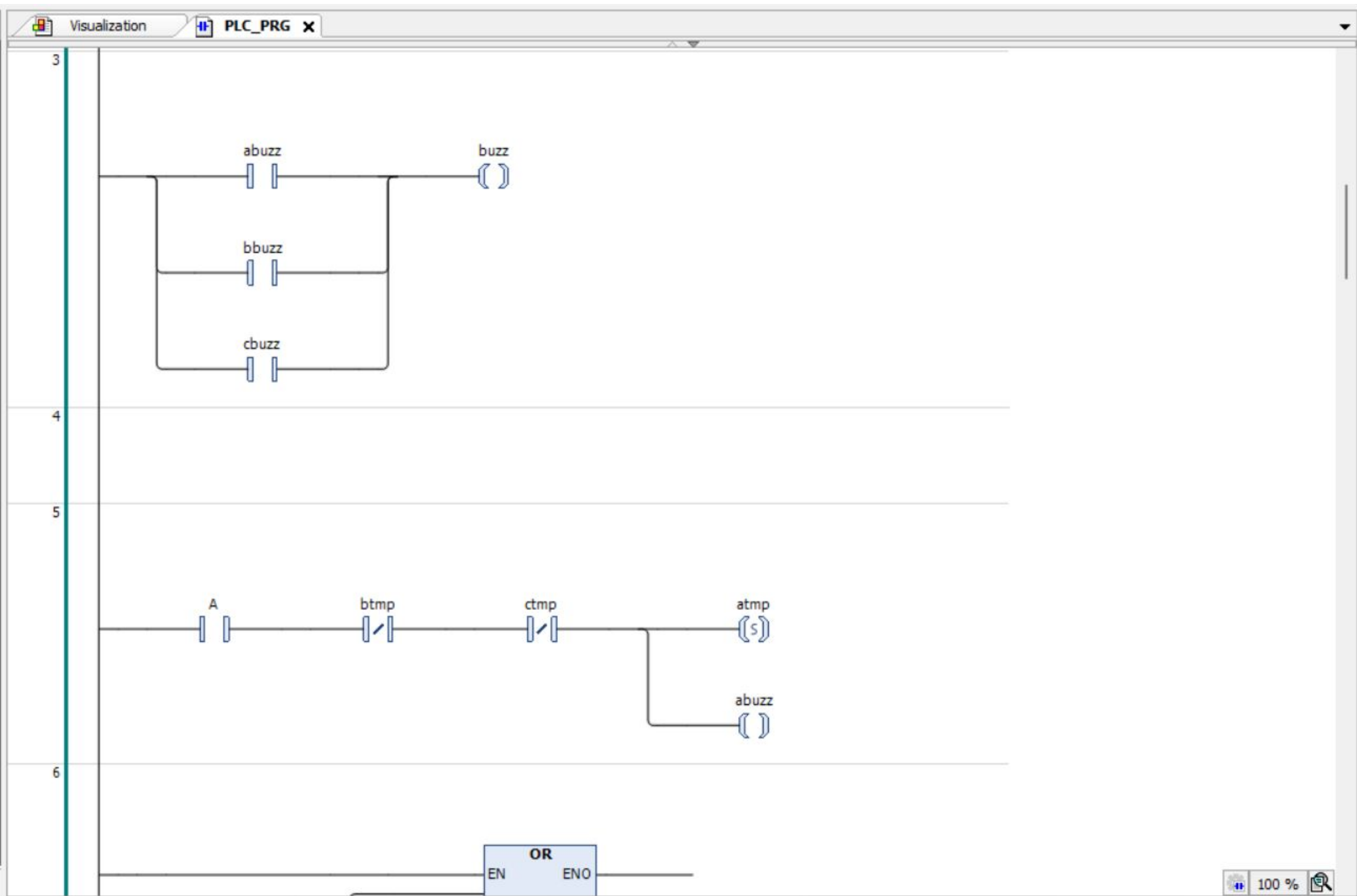
+ Add Call X Remove Call Change Call Move Up Move Down Open POU

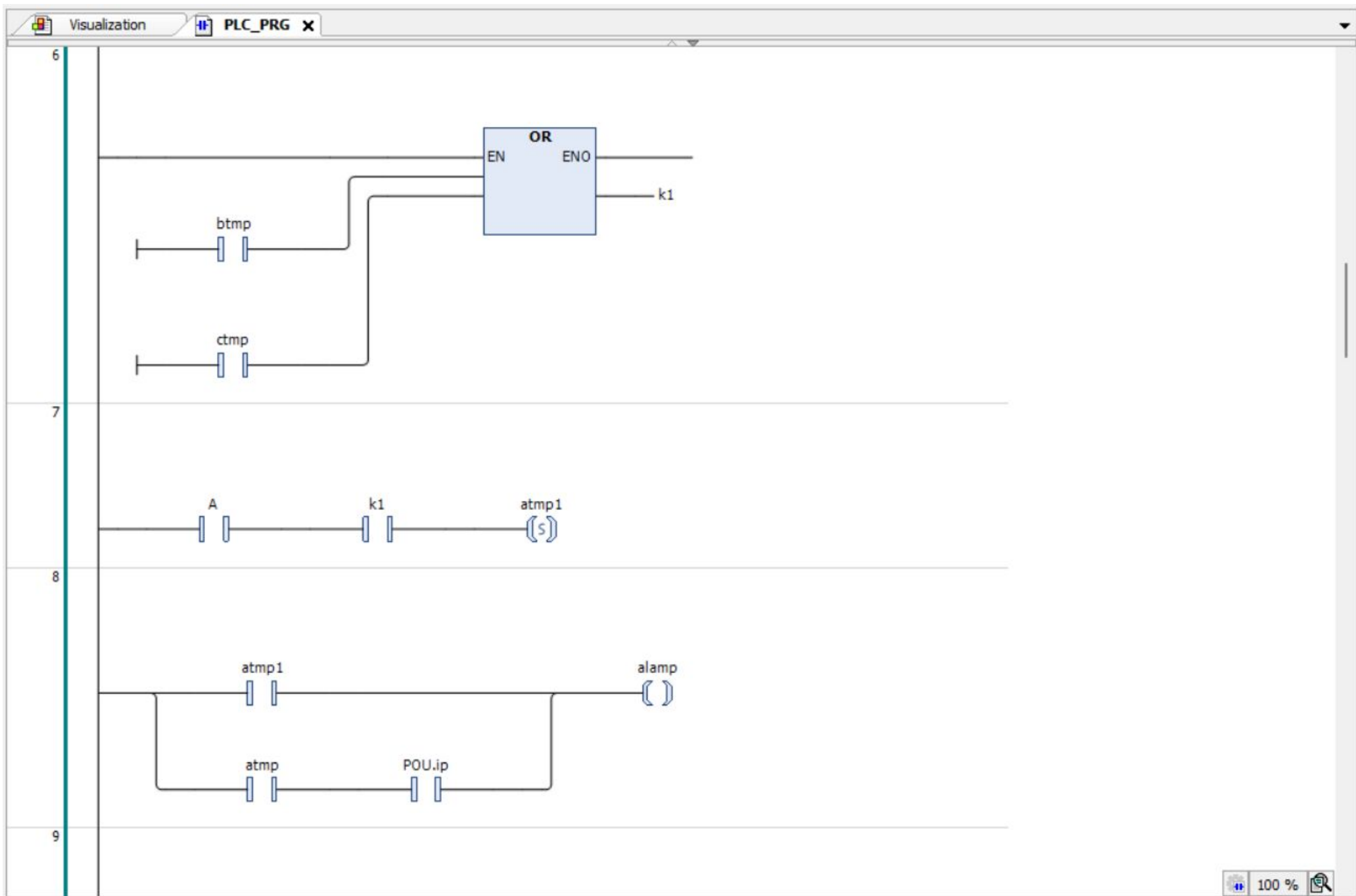
POU

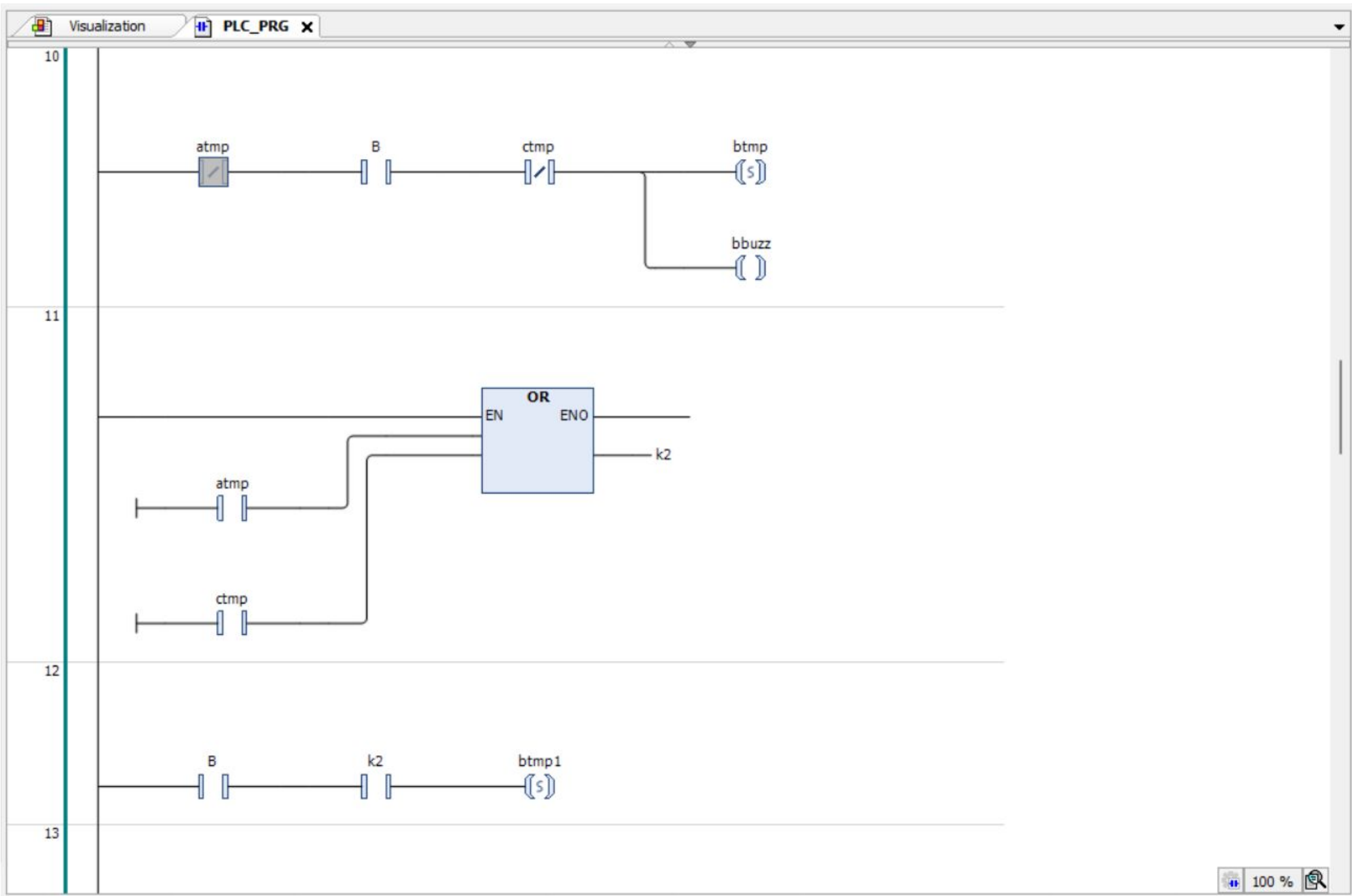
POU

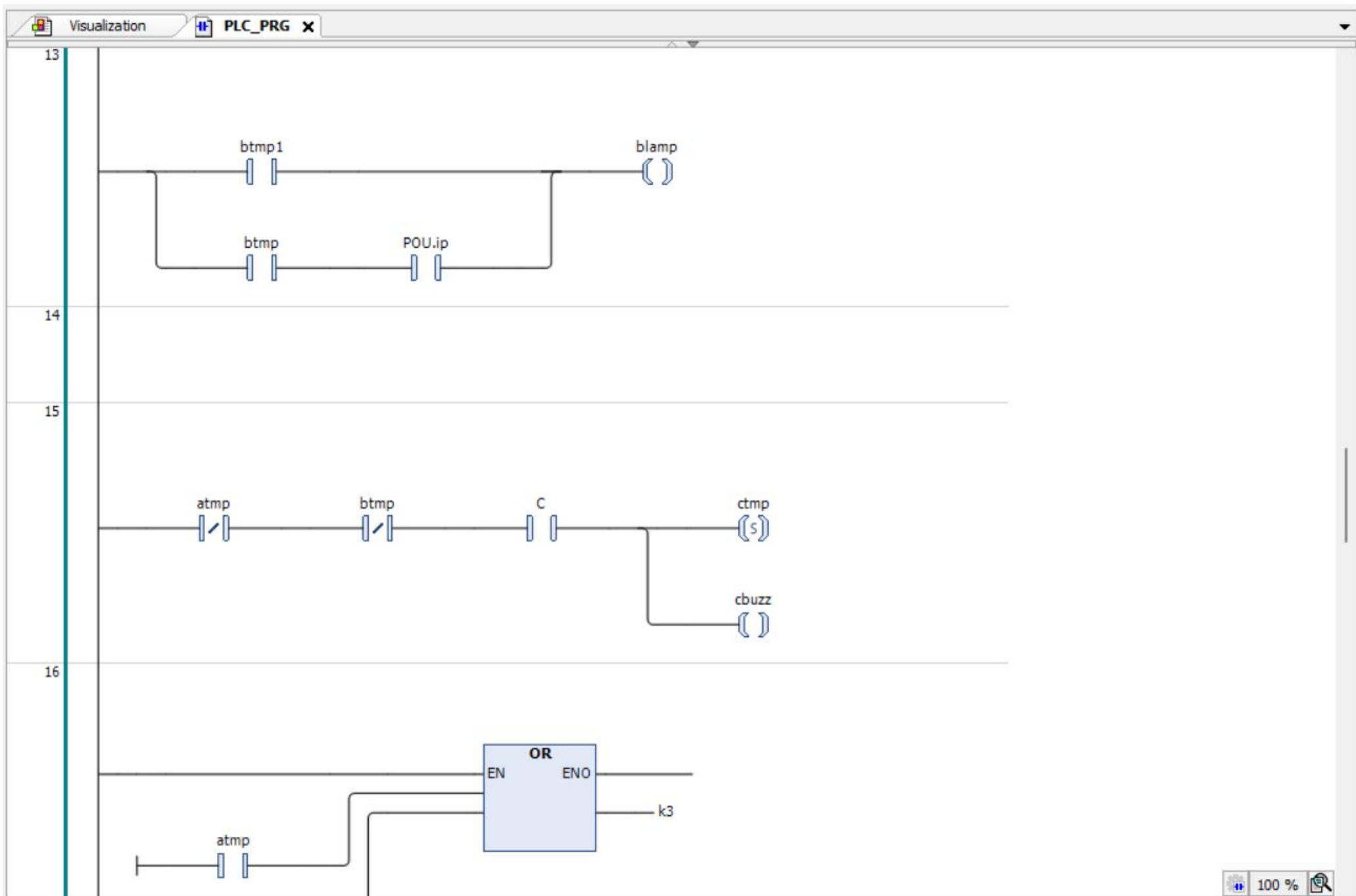
Comment











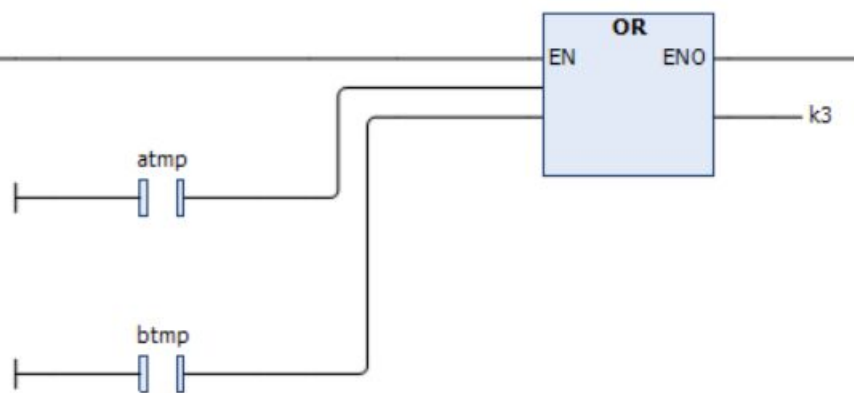


Visualization



PLC_PRG X

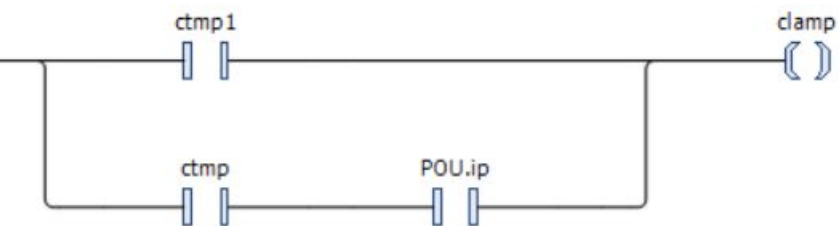
16



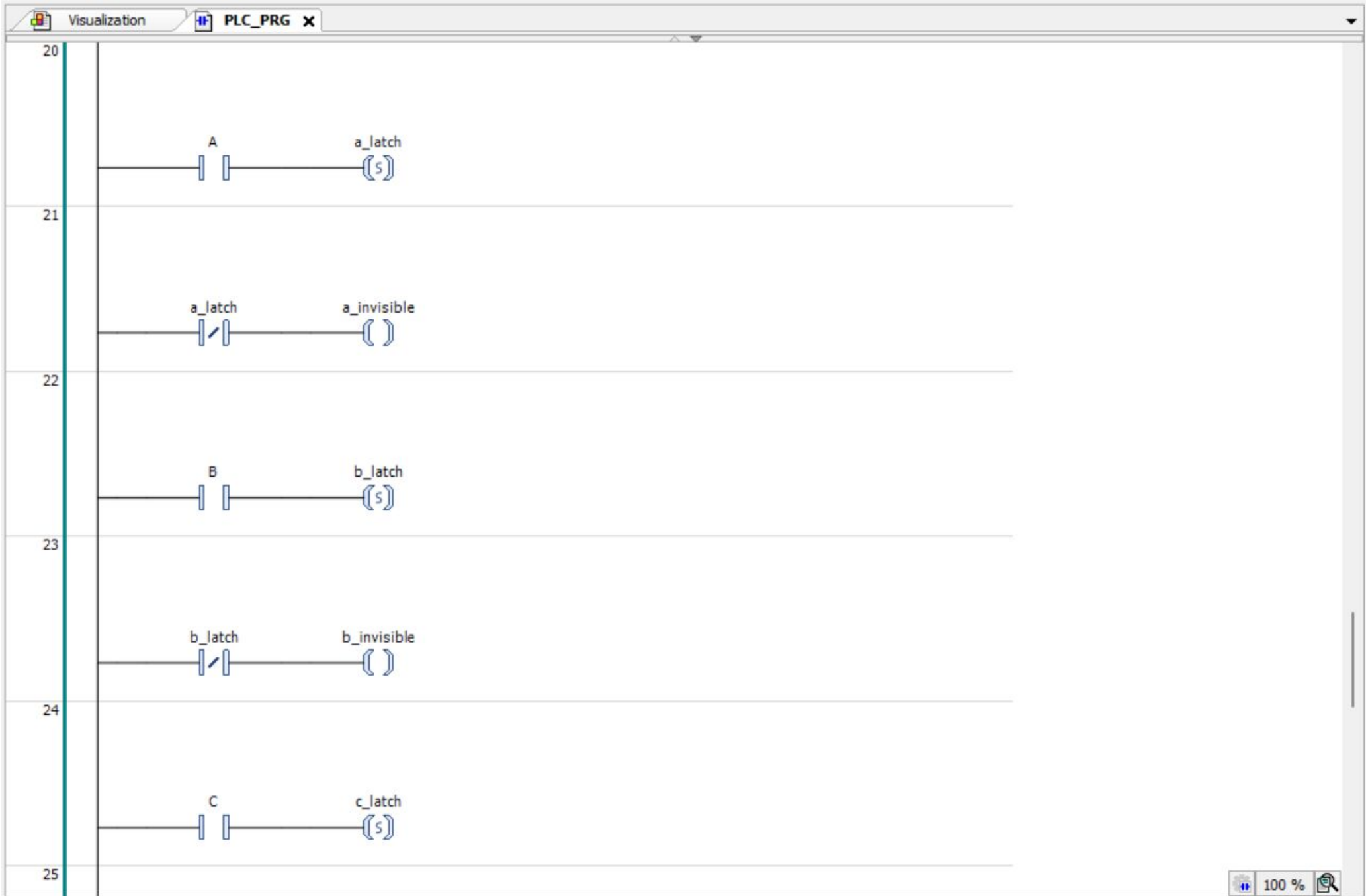
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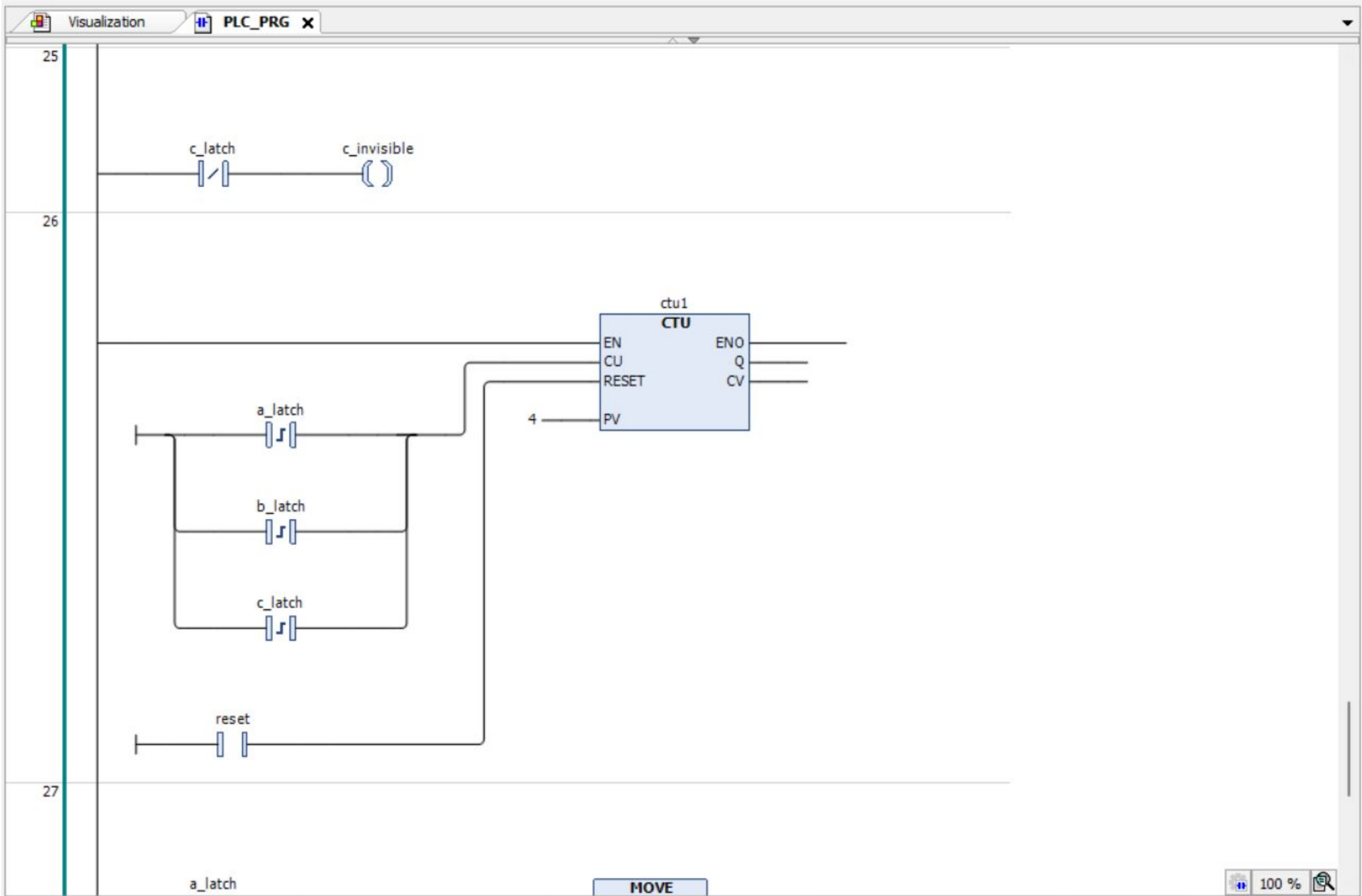


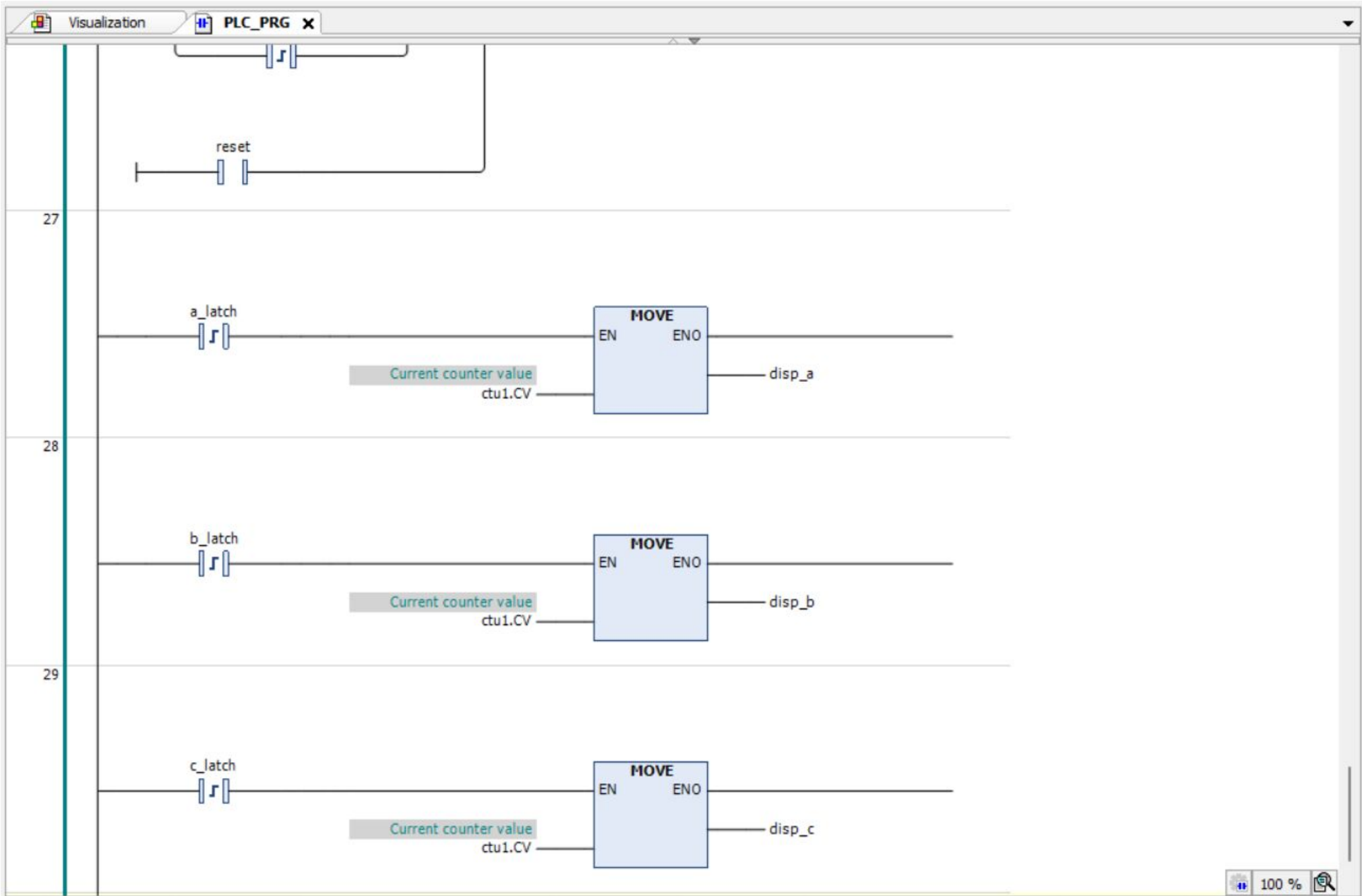
18



19







Contestants



%i



%i



%i



Quiz Master



Reset



Buzzer