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;PA7 reads external switch and PD7 drives external LED

start:

```
sbi VPORTD_DIR, 7    ;set direction of PD7 as output
sbi VPORTD_OUT, 7    ;set output value to 1
cbi VPORTA_DIR, 7    ;set direction of PA7 to input
```

;Read switch position to control LED

loop:

```
sbis VPORTA_IN, 7    ;skip next instruction if PA7 is 1
cbi VPORTD_OUT, 7    ;clear output PD7 to 0, turn LED ON
sbic VPORTA_IN, 7    ;skip next instruction if PA7 is 0
sbi VPORTD_OUT, 7    ;set output PD7 to 1, turn LED OFF
rjmp loop            ;jump back to loop
```