```c
/*
 * SPI_PR.c
 *
 * Created: 1/29/2026 12:10:06 PM
 * Author : Eliph
 */

#include <avr/io.h>
#include <stdint.h>
#include <avr/interrupt.h>
#include "SPIC/SPIC.h"
#include "ADC/ADC.h"

//GLOBAL: ADC.
uint8_t ADC_VALUES[8];
uint8_t ADC_ACT[8];
uint8_t ADC_ACT_CN = 0;
uint8_t ADC_CN = 0;
unsigned char RCD_DATA;

//SETUP:
void SETUP(void){
    cli();
    //OUTPUT LEDs:
    DDRD = 0xFF;

    //PORTC as input:
    DDRC = 0x00;

    //SPI: SLAVE.
    SPI_SETUP(SPI_SLAVE, SPI_MODE0,SPI_MSB,128);

    //
    SPDR = 0x00;

    //ENABLE: SPI_ISR.
    SPCR |= (1<<SPIE);

    sei();
}

//ISR:
ISR(ADC_vect){
    //STORE:
    ADC_VALUES[ADC_ACT[ADC_CN]] = ADCH;

    //INC:
    ADC_CN++;
    if (ADC_CN == ADC_ACT_CN){
```

```
50          ADC_CN = 0;
51      }
52
53      //NEW:
54      ADMUX = (ADMUX & 0xF0) | (ADC_ACT[ADC_CN]& 0x0F);
55
56      //START:
57      ADCSRA |= (1<<ADSC);
58  }
59  ISR(SPI_STC_vect){
60      //READ:
61      uint8_t SPI_VALUE = SPDR;
62
63      //CONDITION:
64      if(SPI_VALUE == 'S'){
65          SPDR = 'H';
66      }
67      else{}
68  }
69
70  int main(void)
71  {
72      //SETUP:
73      SETUP();
74
75      //ADC:
76      ADC_PC05_67(1,0,2,1,0,1,8,0);
77
78      //ADC selection: PC0 and PC1;
79      uint8_t ADC_SL[2] = {0,1};
80      ALT_ADC(ADC_SL, 2);
81
82      /* Replace with your application code */
83      while (1)
84      {
85      }
86  }
87
88
```