

```

#include <stdio.h>
#include <avr/io.h>
#include <util/delay.h>

void setup(void) {
    DDRB &= ~(1 << PB6); //config PB6 en input
    DDRC &= ~(1 << PC6); //config PC6 en input
    DDRB |= (1 << PB4) | (1 << PB5); // PB4 et PB5 en output
}

void loop(void){
    if(!(PINB & (1<<PB6))) //quand bouton 1 pressÃ©
    {
        PORTB |= (1 << PB4); // Allume PB4
    }
    else if(!(PINC & (1<<PC6))) //quand bouton 2 pressÃ©
    {
        PORTB |= (1 << PB5); // Allume PB5
    }
    else if((PINB & (1<<PB6)) && (PINC & (1<<PC6))) //si aucun bouton pressÃ©
    {
        PORTB &= ~(1 << PB5); // Eteint PB5 (tous les bits de pb5 passent a 1 sauf
pb5)
        PORTB &= ~(1 << PB4); // Eteint PB4
    }
    else if(!(PINB & (1<<PB6))) //si les deux boutons pressÃ©s
    {
        if(!(PINC & (1<<PC6)))
        {
            PORTB &= (1 << PB5);
            PORTB &= (1 << PB4);
        }
    }
    else if(!(PINC & (1<<PC6))) //si les deux boutons pressÃ©s
    {
        if(!(PINB & (1<<PB6)))
        {
            PORTB &= (1 << PB5);
            PORTB &= (1 << PB4);
        }
    }
}

int main(void){
    CLKSEL0 = 0b00010101; // sÃ©lection de l'horloge externe
    CLKSEL1 = 0b00001111; // minimum de 8Mhz
    CLKPR = 0b10000000; // modification du diviseur d'horloge (CLKPCE=1)
}

```

```
CLKPR = 0;          // 0 pour pas de diviseur (diviseur de 1)
setup();
while(1) loop();
return 0;
}
```