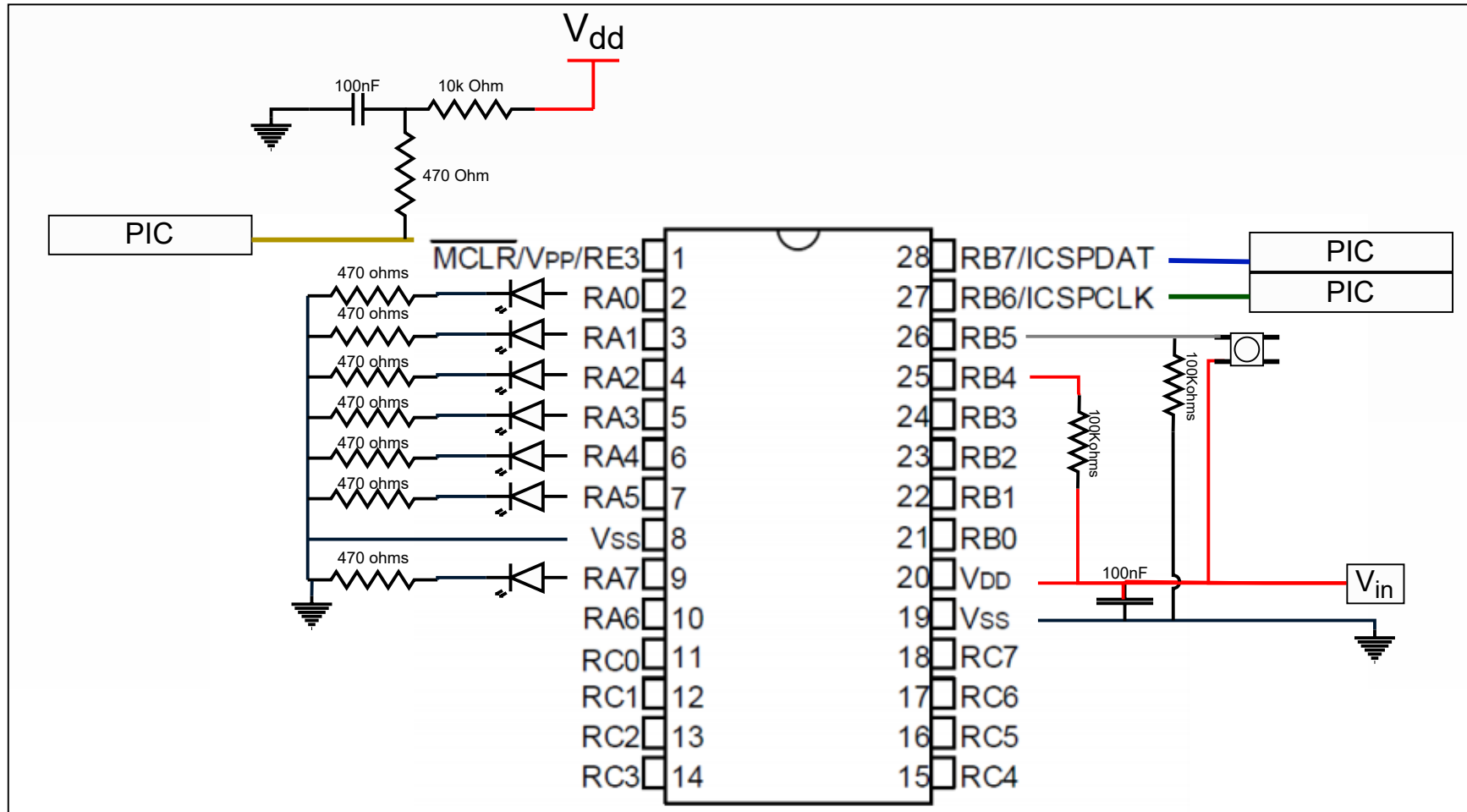


# Schematic



# Mock code flow

```
/** Part 1 **/  
GPIOsetup  
{  
    -set LATA 0:7 to outputs  
    -set RB5 AND RB4 to inputs  
    -clear LATA and PORTB  
}  
  
userapprun  
{  
    if(LATA == Max number)  
    {  
        LATA = lowest number  
    }  
  
    if(RB5 == 1)  
    {  
        LATA++  
    }  
}  
  
////////////////////////////////////  
////////////////////////////////////  
** Part 2 **/  
GPIOsetup  
{  
    -set LATA 0:7 to outputs  
    -set RB5 AND RB4 to inputs  
    -clear LATA and PORTB  
}  
  
userapprun  
{  
    if(RB5 == 1 and the previous state was 0)  
    {  
        LATA++  
        set previous state to 1 (add a delay if theres too much bounce as a temporary solution)  
    }  
  
    if(RB5 is 0)  
    {  
        previous state = 0  
    }  
}
```

# ***Circuit***

