

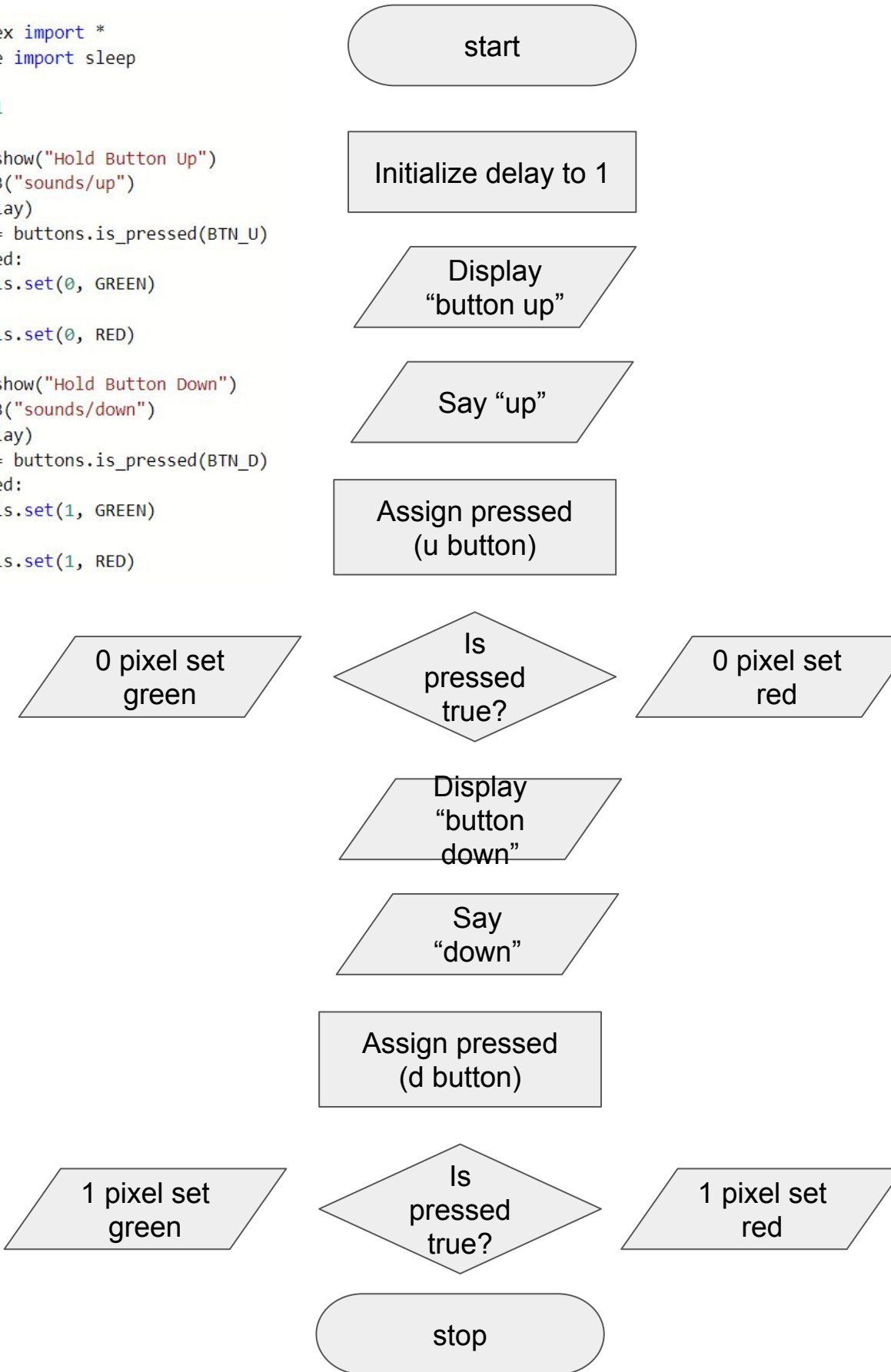
# Code Sample A – possible solution

```
from codex import *
from time import sleep

delay = 1

display.show("Hold Button Up")
audio.mp3("sounds/up")
sleep(delay)
pressed = buttons.is_pressed(BTN_U)
if pressed:
    pixels.set(0, GREEN)
else:
    pixels.set(0, RED)

display.show("Hold Button Down")
audio.mp3("sounds/down")
sleep(delay)
pressed = buttons.is_pressed(BTN_D)
if pressed:
    pixels.set(1, GREEN)
else:
    pixels.set(1, RED)
```



## Code Sample B – possible solution

```
delay = 1.0
```

```
pressed = buttons.is_pressed(BTN_A)
```

```
if pressed:
```

```
    pixels.set(0, RED)
```

```
    pixels.set(1, RED)
```

```
    sleep(delay)
```

```
    pixels.set(0, BLACK)
```

```
    pixels.set(1, BLACK)
```

```
    sleep(delay)
```

```
pixels.set(0, RED)
```

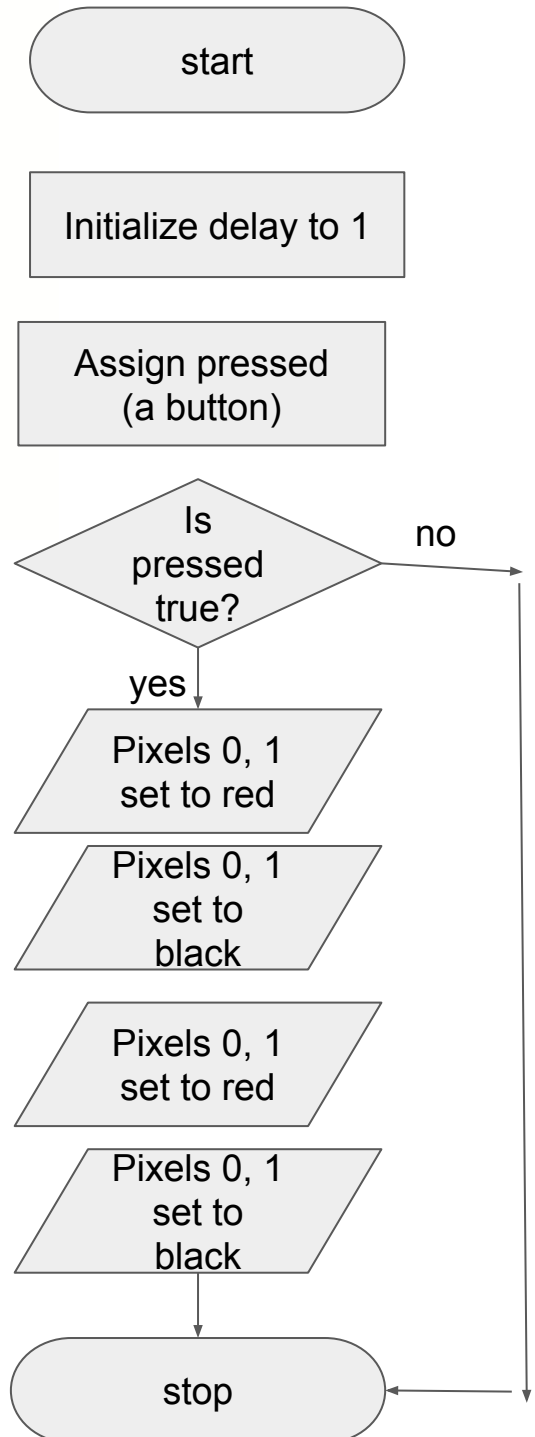
```
pixels.set(1, RED)
```

```
sleep(delay)
```

```
pixels.set(0, BLACK)
```

```
pixels.set(1, BLACK)
```

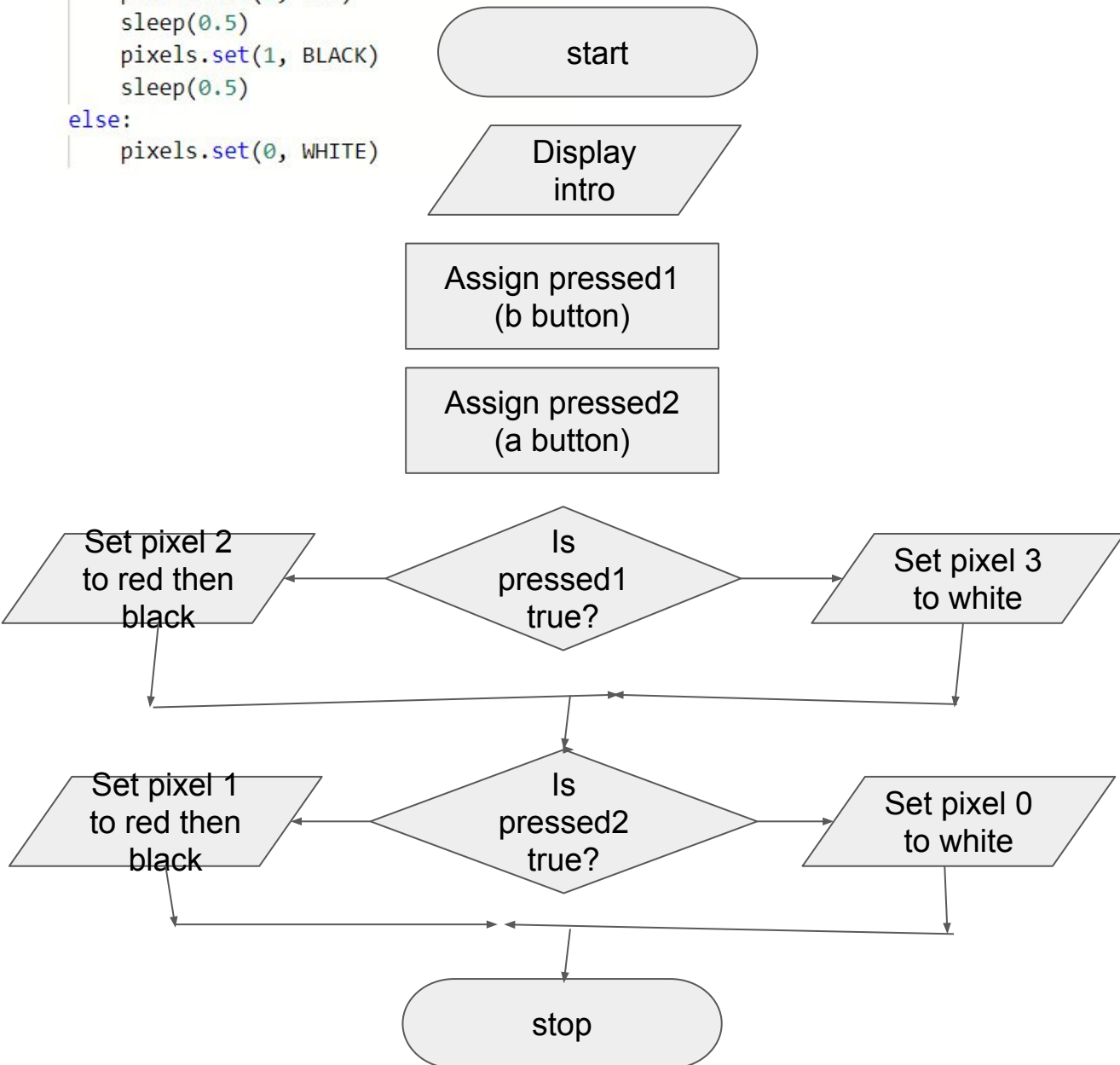
```
sleep(delay)
```



## Code Sample C – possible solution

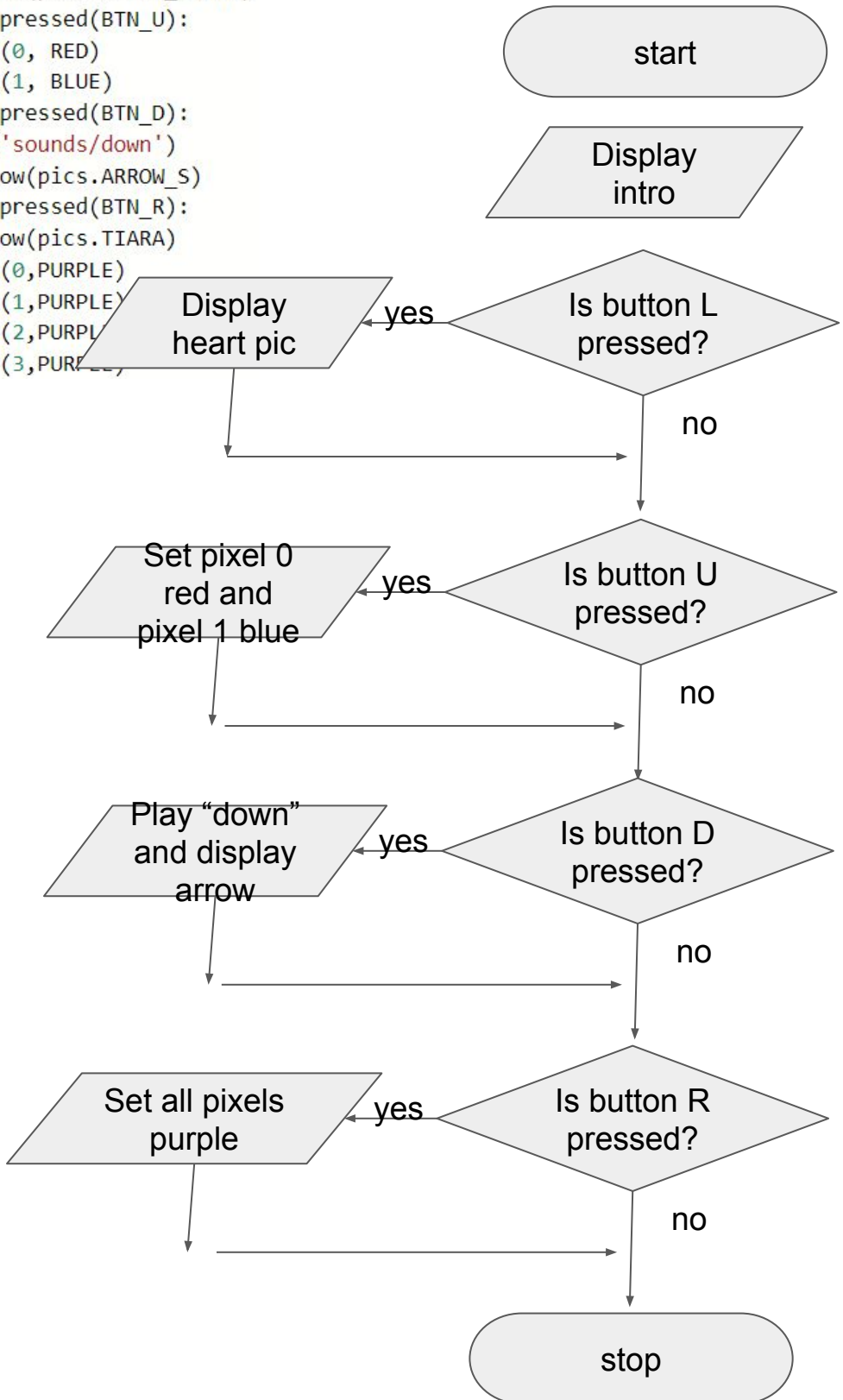
```
display.show("Press a button")
sleep(3)
pressed1 = buttons.was_pressed(BTN_B)
pressed2 = buttons.was_pressed(BTN_A)
if pressed1:
    pixels.set(2, RED)
    sleep(0.5)
    pixels.set(2, BLACK)
    sleep(0.5)
else:
    pixels.set(3, WHITE)

if pressed2:
    pixels.set(1, RED)
    sleep(0.5)
    pixels.set(1, BLACK)
    sleep(0.5)
else:
    pixels.set(0, WHITE)
```



## Code Sample D – possible solution

```
display.print("Press a button")
display.print("for a surprise!")
sleep(3)
if buttons.is_pressed(BTN_L):
    display.show(pics.HEART_SMALL)
if buttons.is_pressed(BTN_U):
    pixels.set(0, RED)
    pixels.set(1, BLUE)
if buttons.is_pressed(BTN_D):
    audio.mp3('sounds/down')
    display.show(pics.ARROW_S)
if buttons.is_pressed(BTN_R):
    display.show(pics.TIARA)
    pixels.set(0,PURPLE)
    pixels.set(1,PURPLE)
    pixels.set(2,PURPLE)
    pixels.set(3,PURPLE)
```

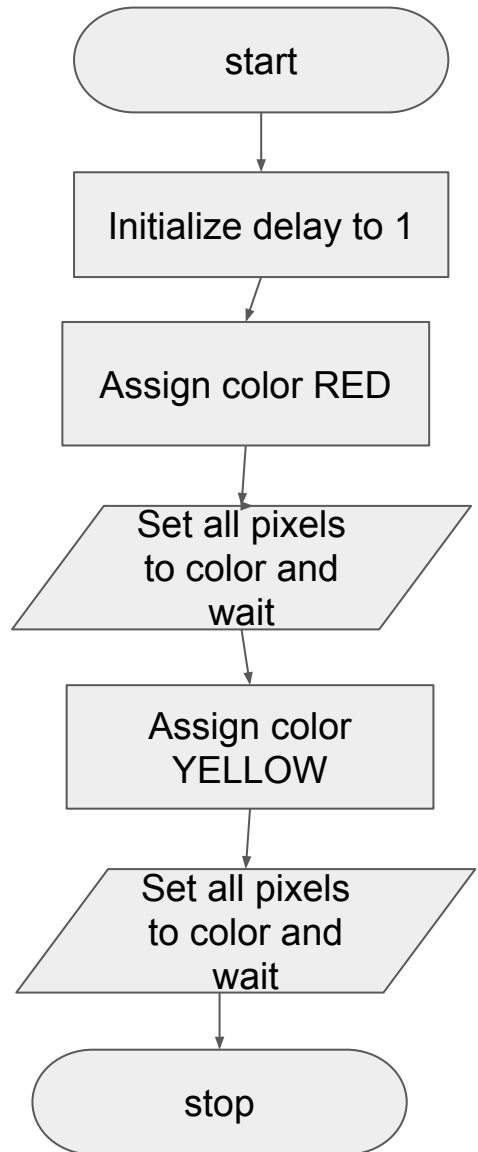


## Code Sample E – possible solution

```
delay = 1
```

```
color = RED  
pixels.set(0, color)  
pixels.set(1, color)  
pixels.set(2, color)  
pixels.set(3, color)  
sleep(delay)
```

```
color = YELLOW  
pixels.set(0, color)  
pixels.set(1, color)  
pixels.set(2, color)  
pixels.set(3, color)  
sleep(delay)
```



## Code Sample F – possible solution

```
display.show("enjoy the tunes")
```

```
red = randrange(256)  
green = randrange(256)  
blue = randrange(256)  
color = (red, green, blue)
```

```
display.show(pics.TIARA)  
audio.mp3("sounds/welcome")
```

```
red = randrange(256)  
green = randrange(256)  
blue = randrange(256)  
color = (red, green, blue)
```

```
display.show(pics.TSHIRT)  
audio.mp3("sounds/bohemia")
```

