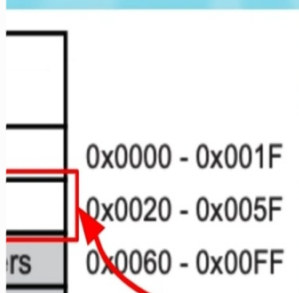


Where did PORTB and DDRB come from?



Arduino has some secret code which creates variable names for things like PORTB and DDRB

Instead of using Arduino's names, we can create our own pointer to memory

Where did PORTB and DDRB come from?

13.4.2 PORTB - The Port B Data Register

	7	6	5	4	3	2	1	0	
0x25 (0x25)	PORTB7	PORTB6	PORTB5	PORTB4	PORTB3	PORTB2	PORTB1	PORTB0	PORTB
Read/Write	R/W	R/W	R/W	R/W	R/W	R/W	R/W	R/W	
Initial Value	0	0	0	0	0	0	0	0	

To turn pin 13 on, we need to set the register at address 0x25 to "32"

How do we write that in code?

```

void setup() {
  DDRB = 32;
}

void loop() {
  byte* mitch = 0x25; // Address of portB Register
  *mitch = 32;

  for (long i = 0; i < 1000000; i++) { *mitch = 32; }

  *mitch = 0;
  for (long i = 0; i < 1000000; i++) { *mitch = 0; }
}

```