## Design brief

You parents have said you can have some friends over during the school holidays as long as your big brother is watching and can tell them exactly how many of your friends are in the house at any given time. However, your big brother is extremely lazy and says he will only help if you make it easy for him. So you decide to prototype a simple counter using a micro:bit so he can count your friends as they come and go.

## **IPO Table**

Inputs	Processing	Outputs
Button A	ASSIGN counter 0	Display counter
Button B	LOOP:	
Button Shake	GET button A decrement	
	counter by 1	
	GET button B increment counter	
	by 1	
	GET shake Assign counter 0	
	PUT counter to LED array	

## Pseudocode

SET counter to zero

LISTEN

IF button A

**INCREMENT** counter one

IF button B and IF counter greater than 0

**DECREMENT** counter one

IF shake

SET counter to zero

LOOP FOREVER

DISPLAY counter to led array