

U2-2.2b Challenge up: Teach Edison to count to 9 out loud

Can you get Edison to trace a digital display number by driving over it and count the same value 'out loud' in just one program?

What to do

Look at activity sheets U2-4, U2-5, U2-6 and U2-7. Choose one of the activity sheets to use.

Write a program for Edison so that the robot traces over the digital display number you chose. You also need Edison to count 'out loud' somehow.

Your program needs to have Edison count the same amount as the digital display number it is driving. For example, if you choose the number 5, your program needs to have Edison give some sort of signal as it 'counts' to 5.

Think about the sequence of things you want Edison to do. Will the robot drive the whole path and then count? Count before driving? Drive a little, count to one, then drive a bit more before counting the next number?

How you do it is up to you!



Hint!

Which of Edison's outputs could you use to signal the robot is counting?

Mini challenge!

What about the rest of the numbers? Make your own digital display number with a different number than the activity sheets.



Don't forget

Digital display numbers don't have curves or diagonal lines. They only have straight lines and right angles. The numbers are displayed using segments which make up a rectangular grid. Each number, from 0 up to 9, can be displayed by using some combination of the lines in the grid.

Once you have made your digital number, test it out! Write a program for Edison to trace and 'count' your number.

Student Journal

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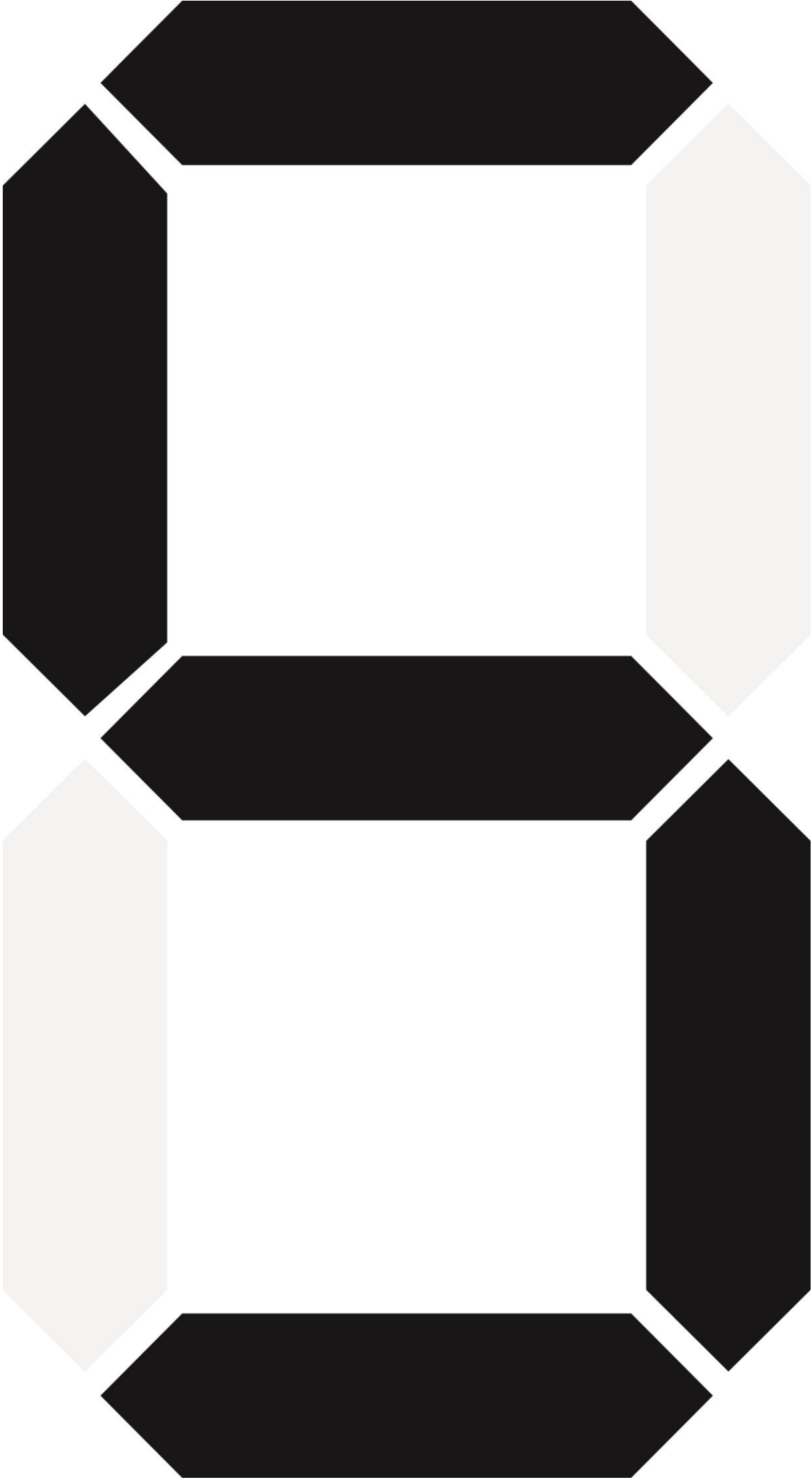
Think about the sequence of things you want Edison to do. Will the robot drive the whole path and then count? Count before driving? Drive a little, count to one, then drive a bit more before counting the next number?

Write your program

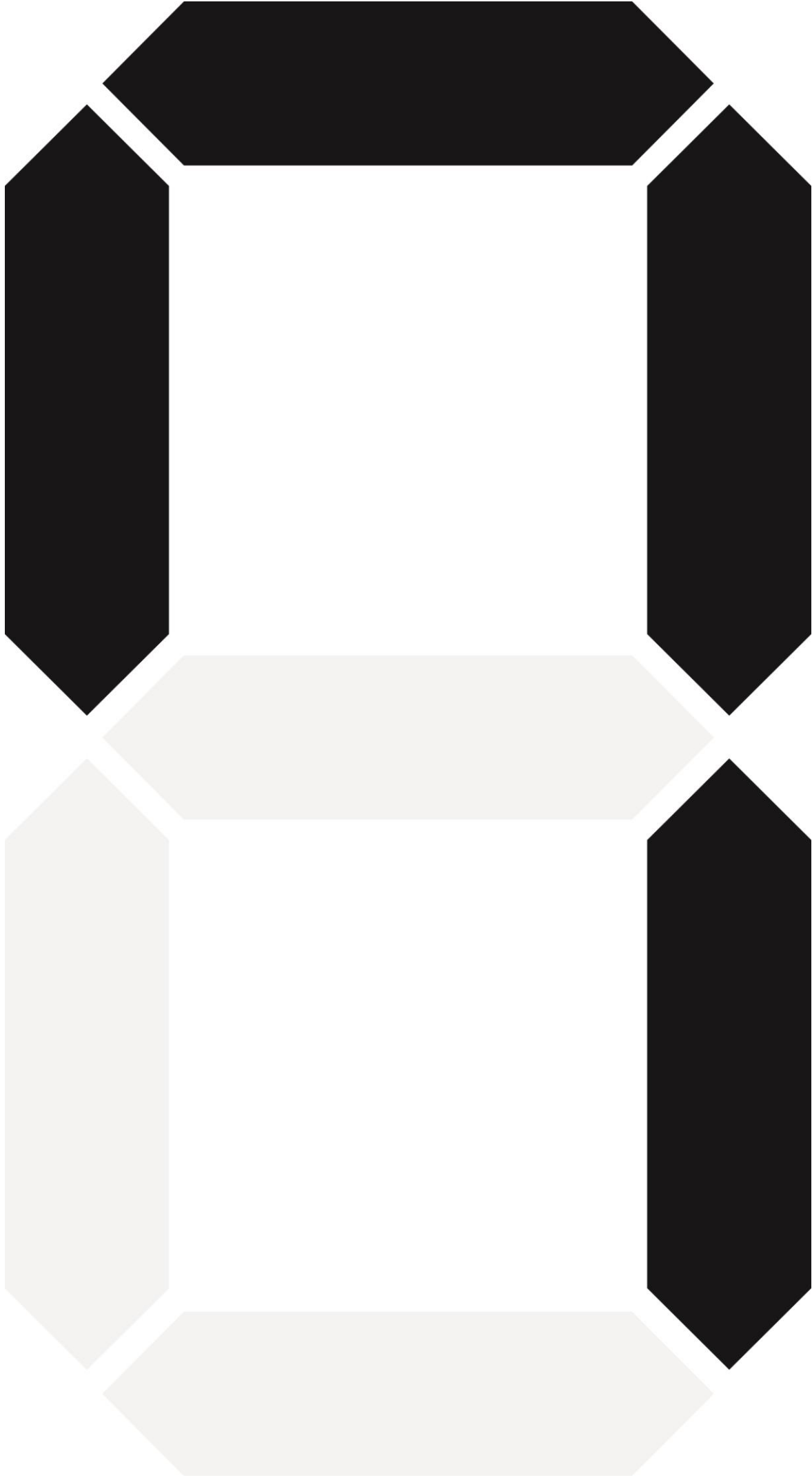
Activity sheet U2-4: Digital display 2



Activity sheet U2-5: Digital display 5



Activity sheet U2-6: Digital display 7



Activity sheet U2-7: Digital display 8

