

Lesson 4: Let's explore going step-by-step in EdScratch

When you write a program for your Edison robot in EdScratch, you are writing the instructions that will tell the robot what to do and in what order to do each thing. Each EdScratch block is one action you are telling the robot to take.

The order in which you connect the blocks together in your program tells the robot in what sequence to do each action. Edison will do the actions in order, one at a time, starting with the top block.

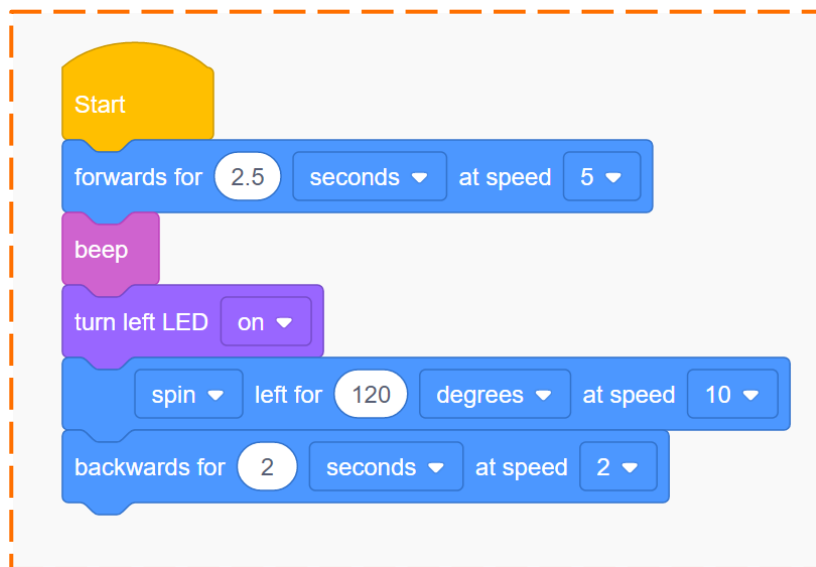


Don't forget

Sequence means going in order, step-by-step.

Task 1: What will Edison do?

Look at this EdScratch program:



All EdScratch programs need to have the yellow **Start** block at the very top. This lets the robot know that the program starts with the first block below the **Start** block.

Read each line block by block, starting with the top block below the **Start** block.

1. If you download this program to Edison, what will the robot do? Be sure to write your answer in the correct sequence.

Task 2: Write the program

Go to the EdScratch app on your computer and write the program from the picture. Find each block in the block pallet and drag it into the programming area.



Hint!

You can change the numbers in a block by clicking on the number and changing it using your keyboard.

You can change a drop-down item in a block by clicking on the down arrow and selecting the option you want.

Make sure that you put all the blocks in the correct sequence in your program.

Once you have written your program, download it to your Edison robot. Run the program and watch what Edison does.

Look at what you wrote down about what you thought the robot would do in your answer in task one. Compare what Edison does when you run the program to your answer. Does the robot do what you predicted? If not, what is different? Check your program and your answer to see if you can spot, and fix, the difference.

Task 3: Change the sequence

Try changing the sequence of your program. Change the order of at least three of the blocks in your program. Don't add any more blocks or change any of the options inside a block – only change the sequence.

Download your new program to Edison and run it in your robot.

2. Which blocks did you move to change the program's sequence? Write down your new program.
