TAKE YOUR ROBOT ON A ROAD TRIP!

CHALLENGE 1: Keep on going…and going….

Make a repeating set of commands using a LOOP.

1) Click the plus sign next to the Project button to start a new program. Choose a different name that has not been used.

2) Drag and drop the orange block "loop" into the program space.

3) Copy the blocks that you used in program 4a and paste them inside the loop button.

4) Copy the blocks that you used in program 4b and paste them inside the loop next to program a.

5) Your program is setup to run program a then program b, then it starts again from a.

   Now we need to set it to repeat the sequence 3 times.

6) On the loop block, at the left side there is an infinity symbol (it looks like a big sideways 8) that says "Unlimited" when you mouse over it. Click on the symbol and a list will pop up. Select the count option from the list.

7) Now the infinity symbol will be gone and there will be a "#". Beside that symbol is the number 1. This represents the number of times your program will repeat the set of commands inside the loop. Change the number to 3 so that it will repeat whatever you tell it to do 3 times.
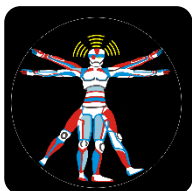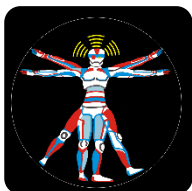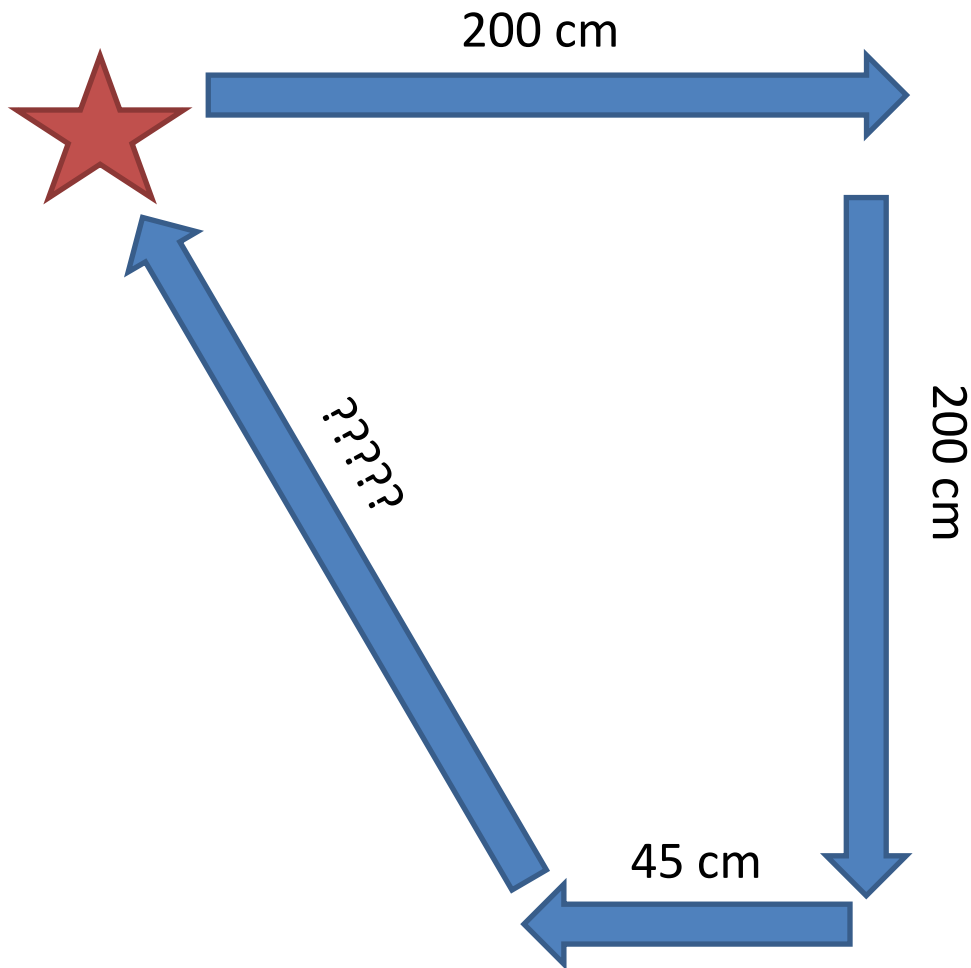
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CHALLENGE 2: Drive Around The Block

- Below is a course that you need to program your robot to travel.

Notice that the path is broken up into centimetres. *Can you program using distance?*

- What will you need to figure out in order to successfully program your robot to follow this course?
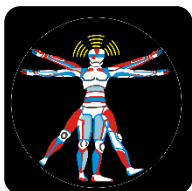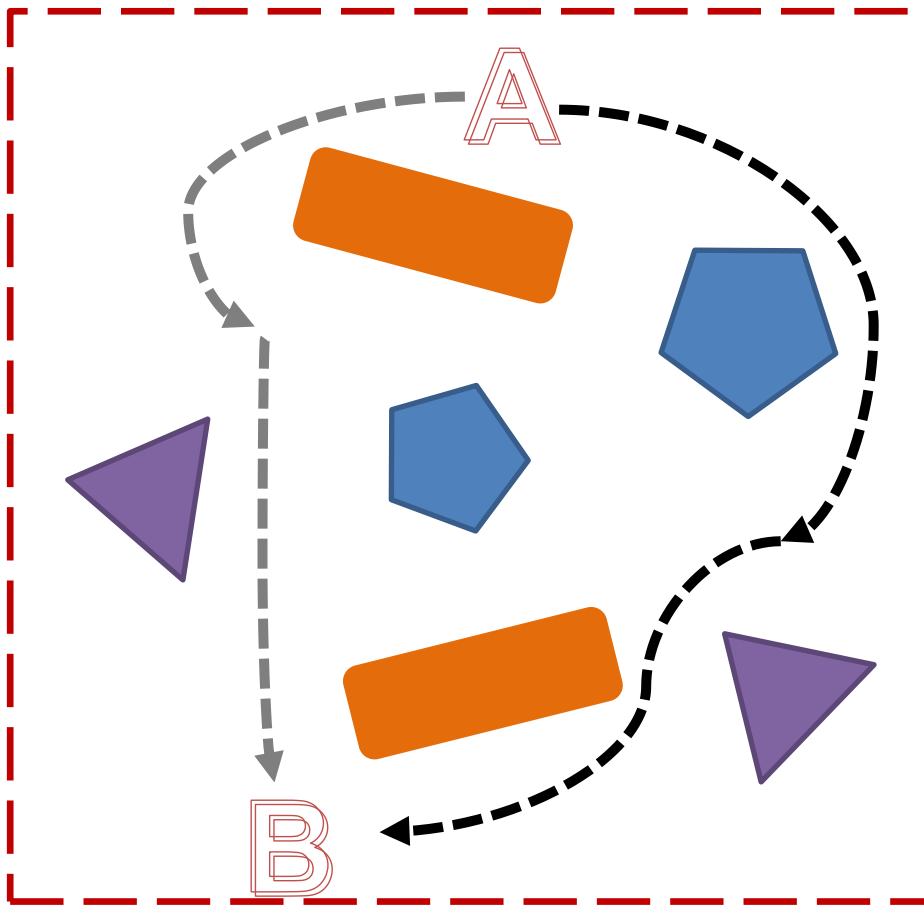
200 cm

200 cm

?????

45 cm

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CHALLENGE 3: Get Out of My Way!

- An obstacle course is laid out on the floor for you.

- Write a program that navigates the course and moves the robot successfully from point A to point B.

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- You can choose to follow any path you want to.

- The only thing you can't do is run into an obstacle, move any of the course around or go outside of the boundary lines.