

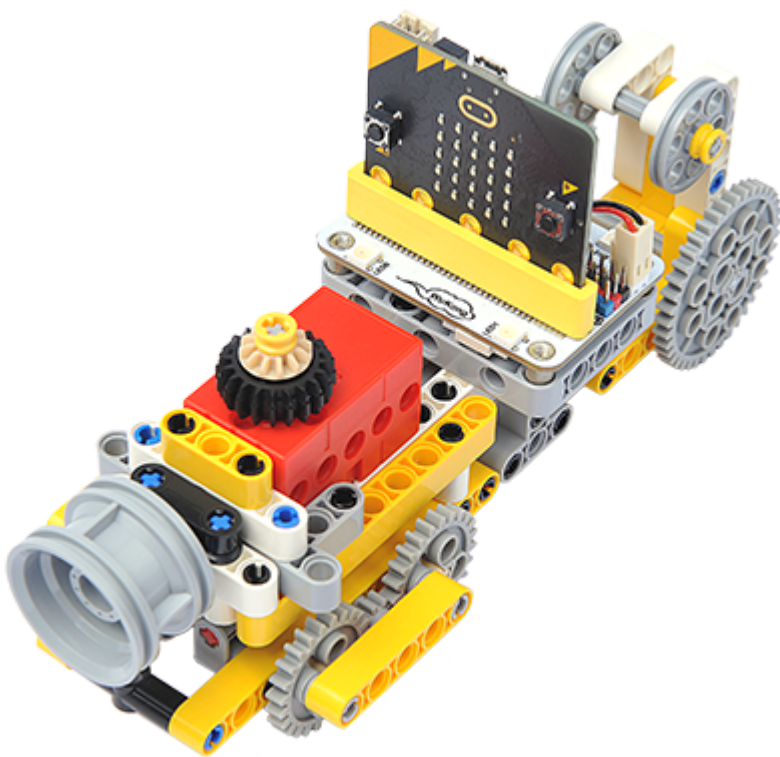
Case 23: The Locomotive

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25.1. Purpose

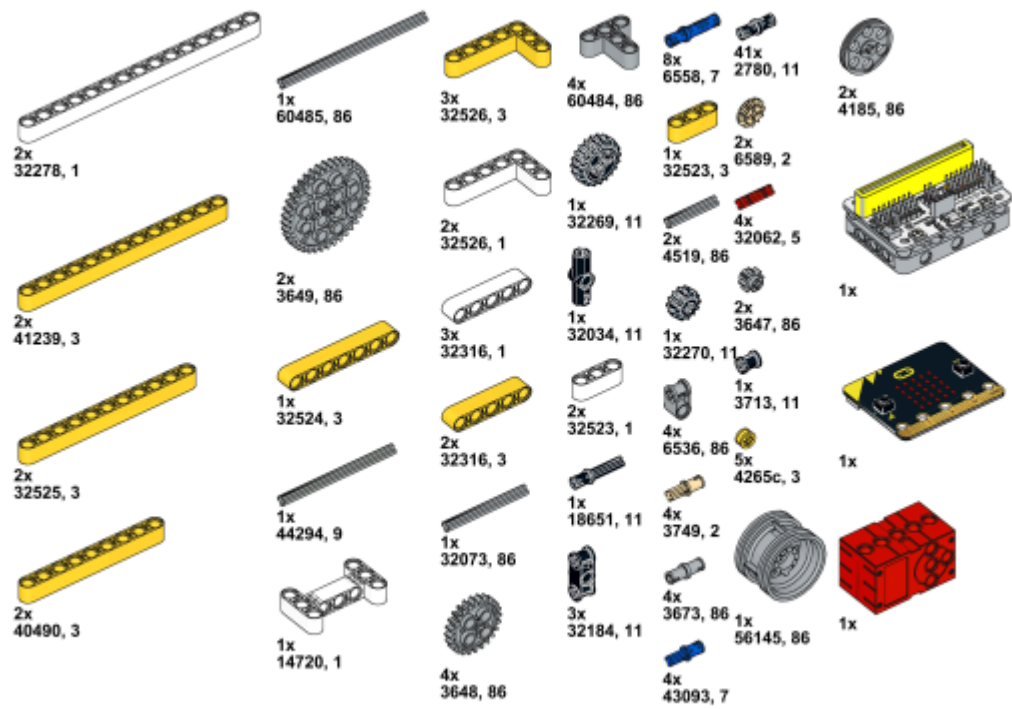
Make a locomotive.



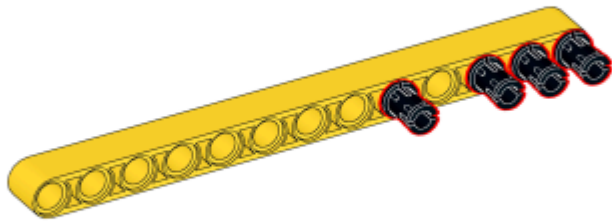
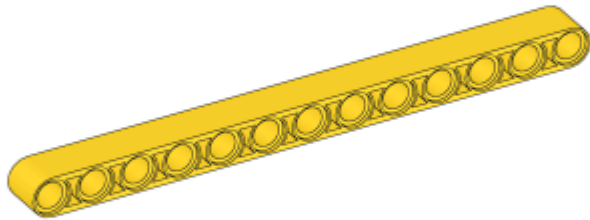
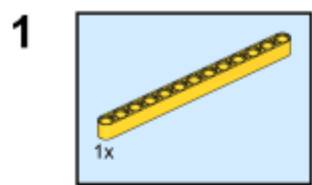
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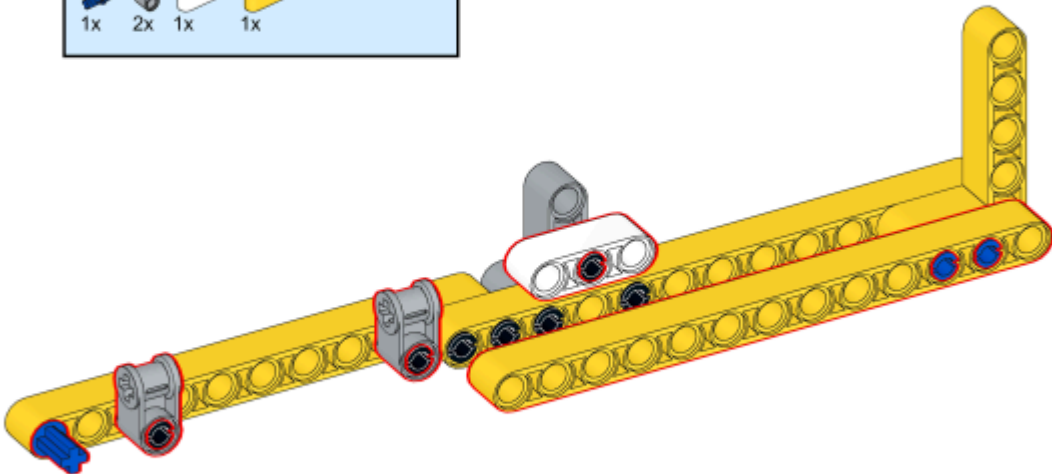
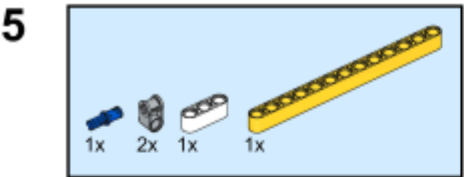
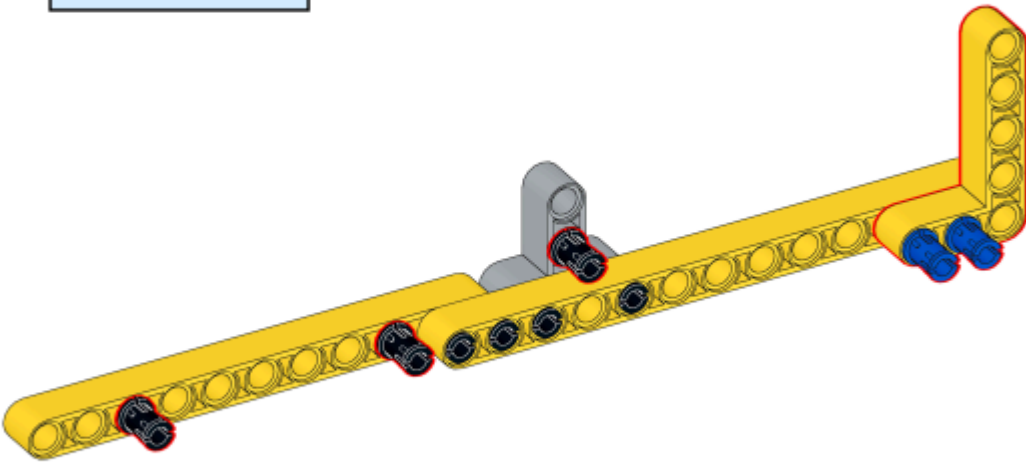
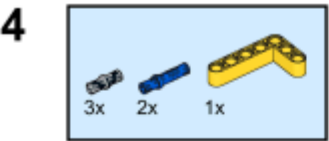
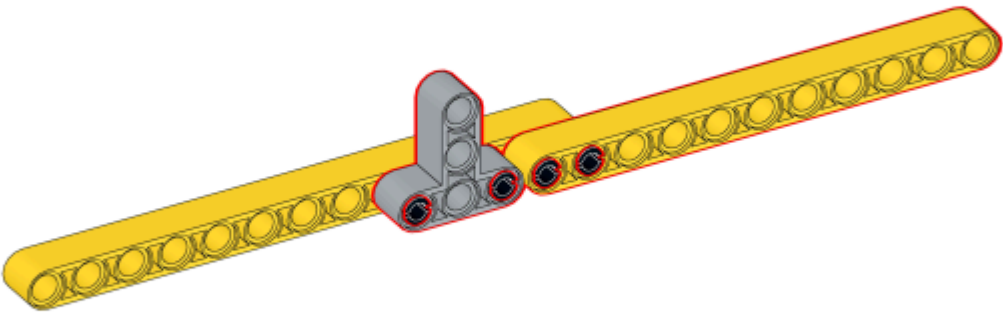
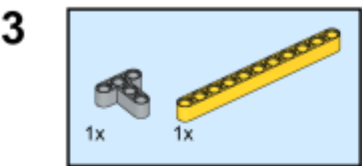
[micro:bit Wonder Building Kit](#)

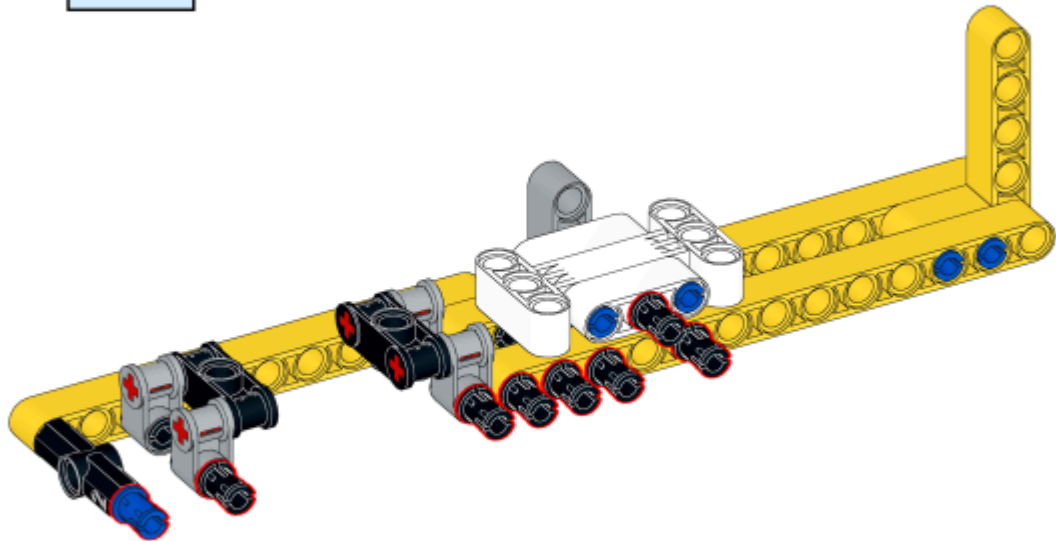
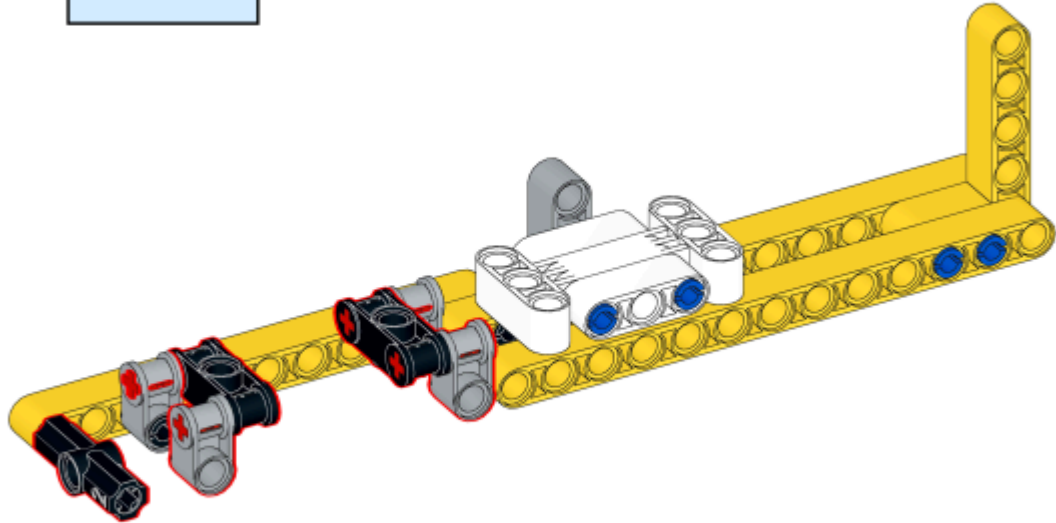
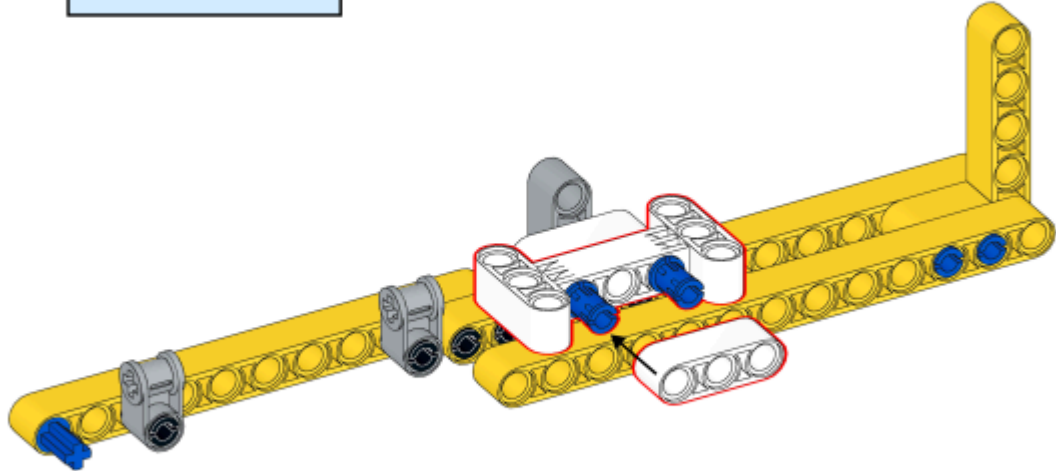
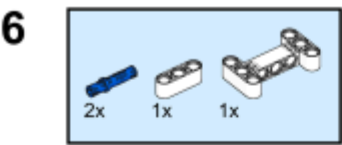
25.3. Materials Required

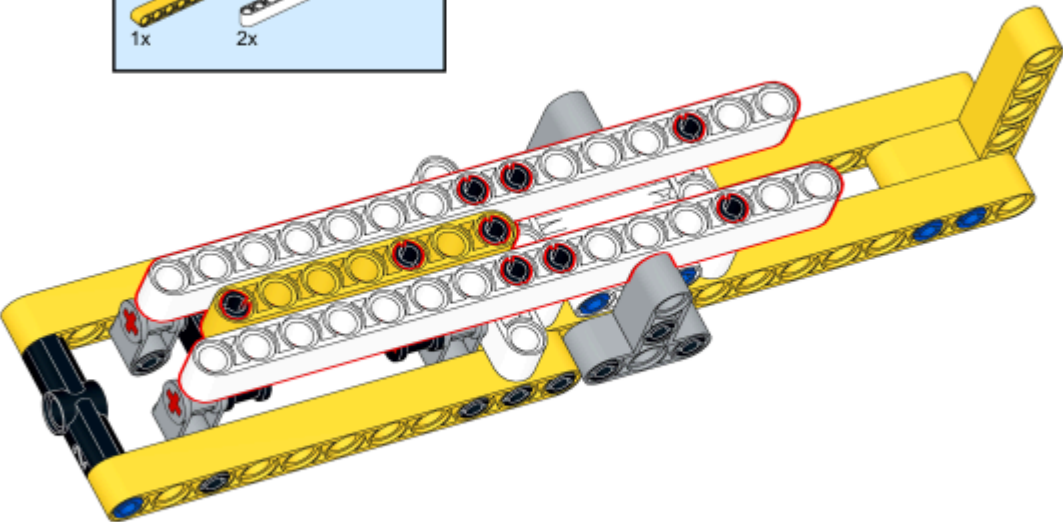
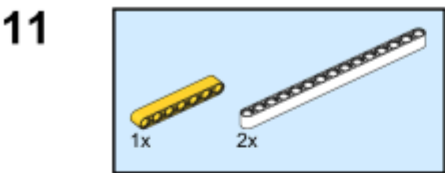
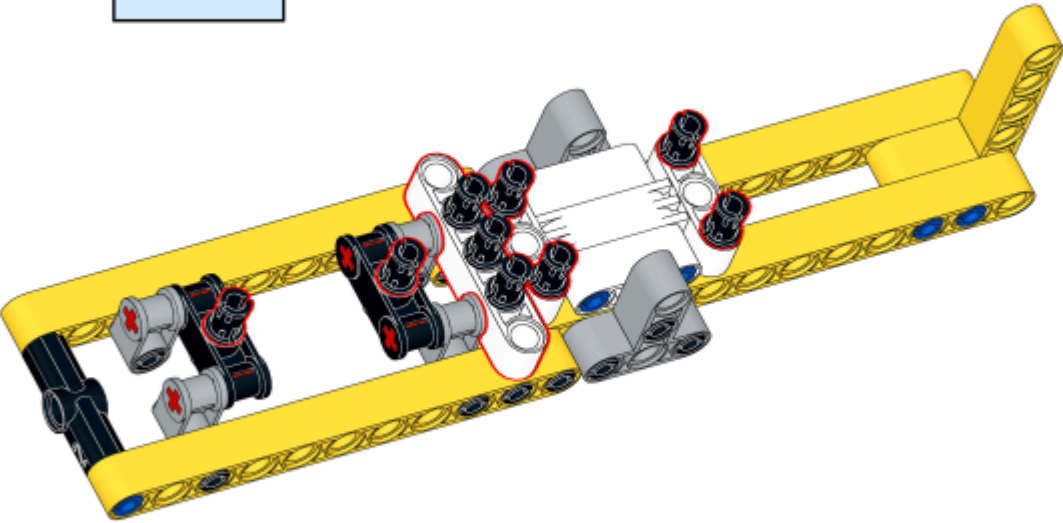
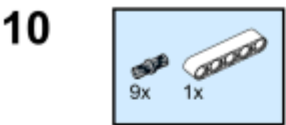
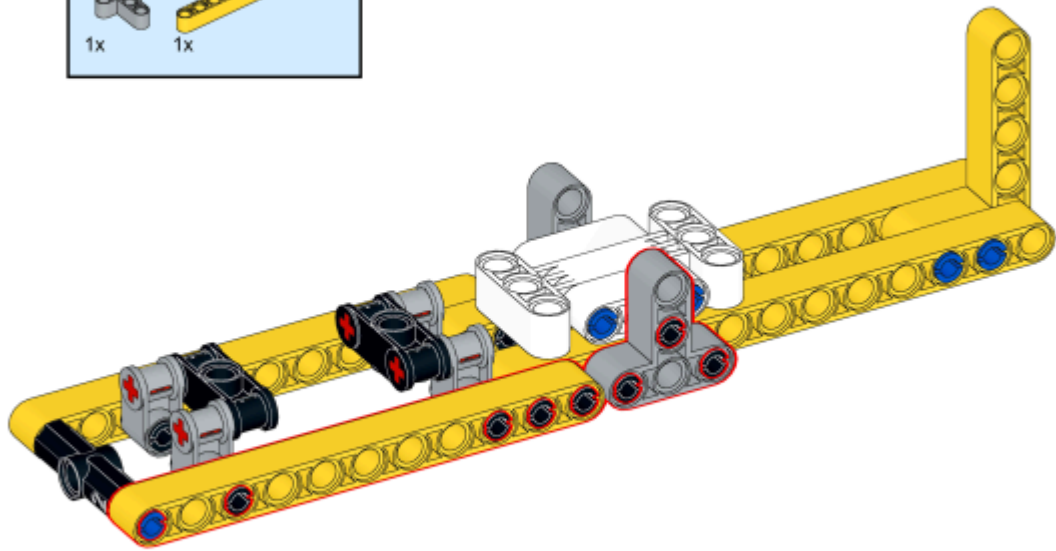
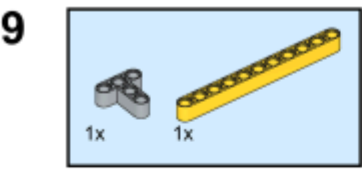


25.4. Bricks build-up

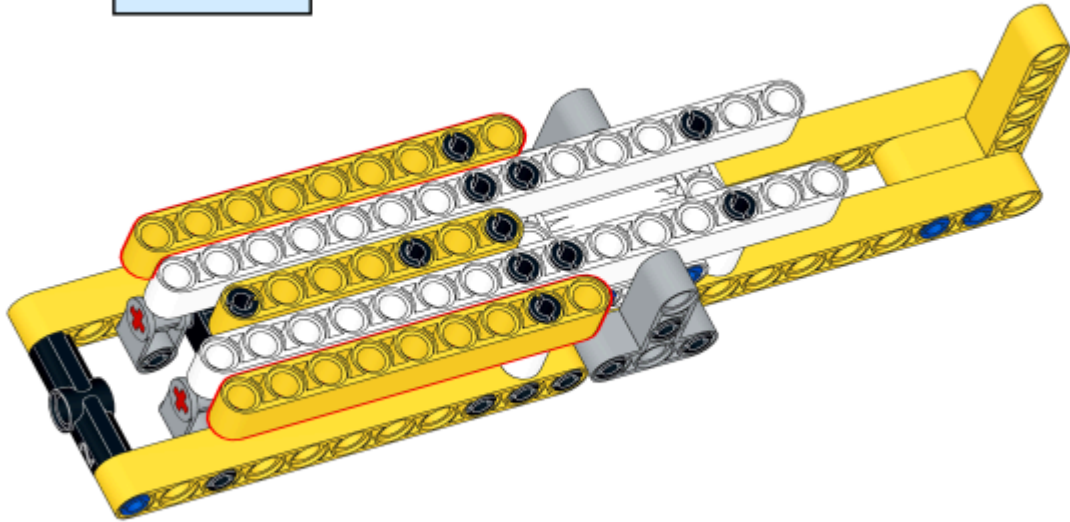
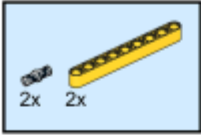




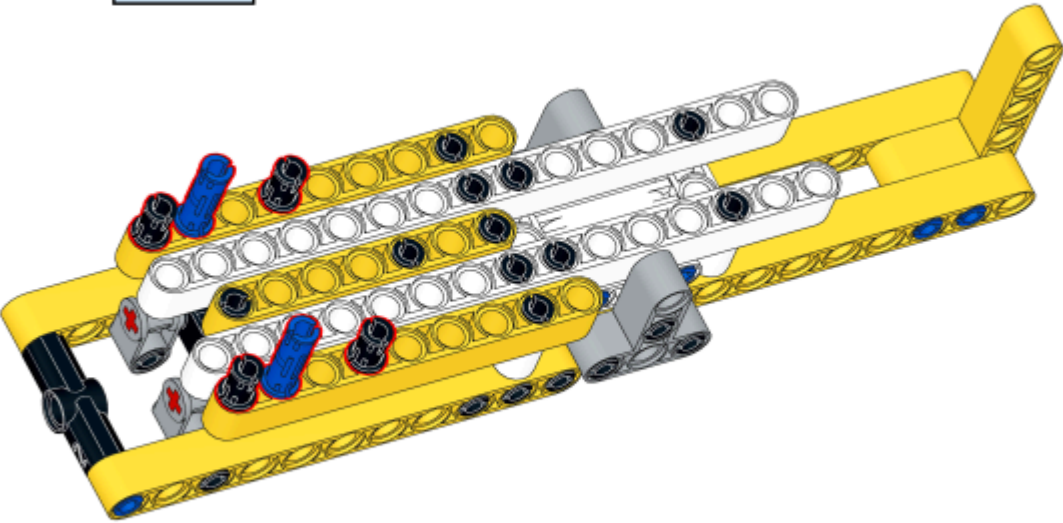




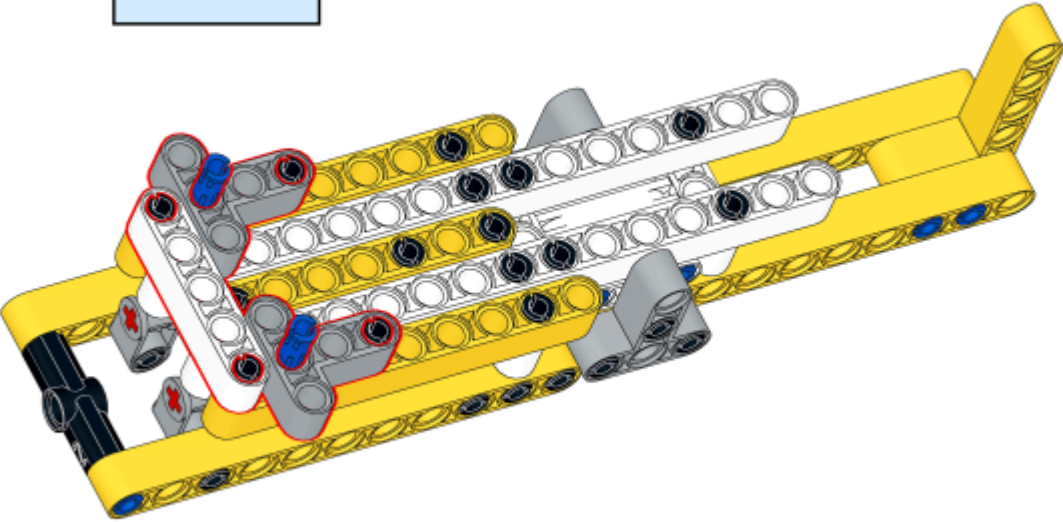
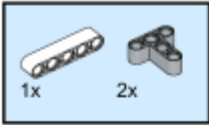
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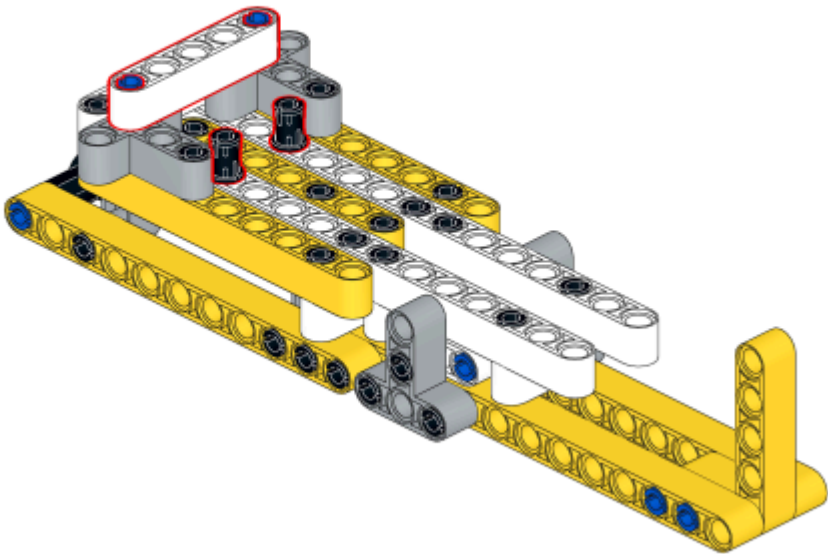
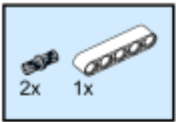
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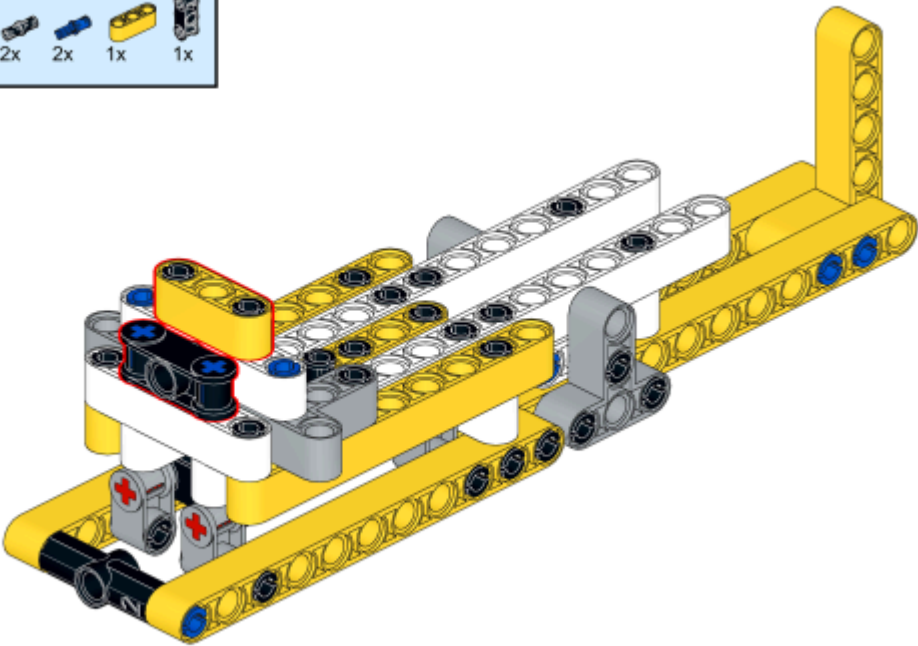
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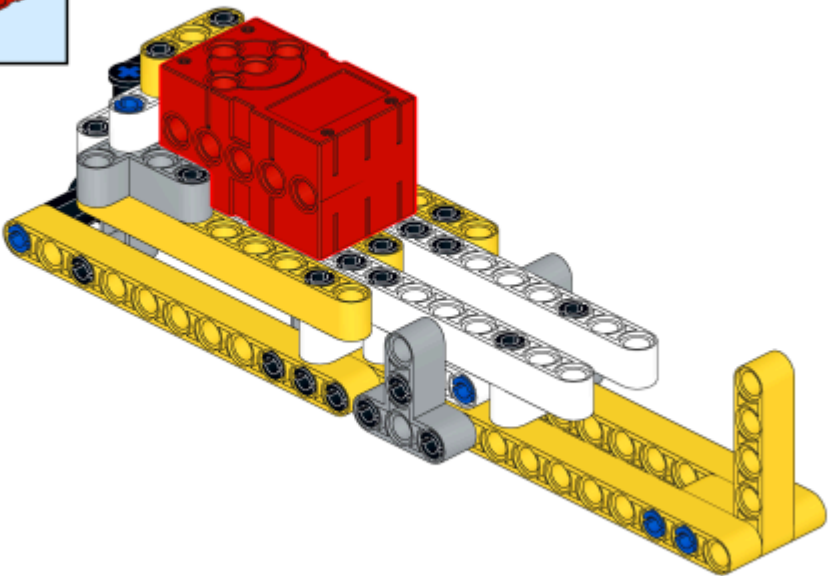
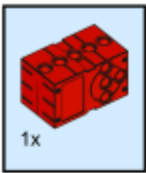
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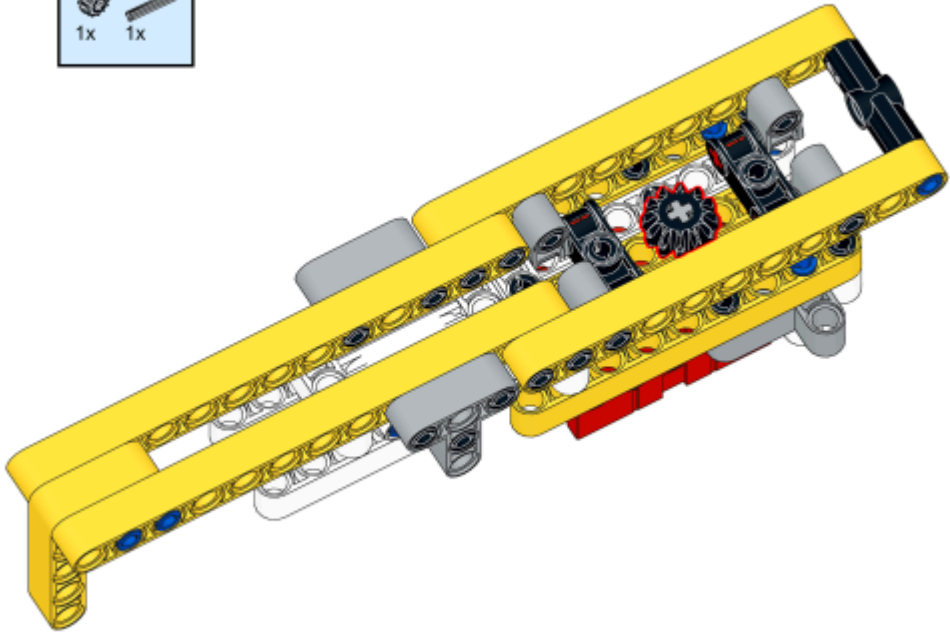
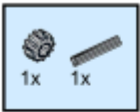
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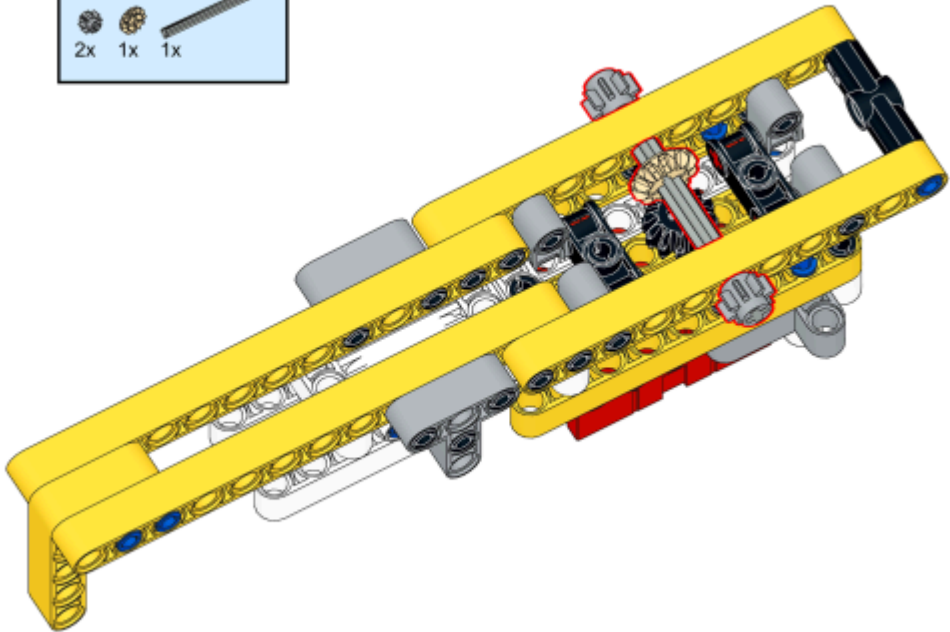
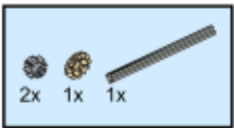
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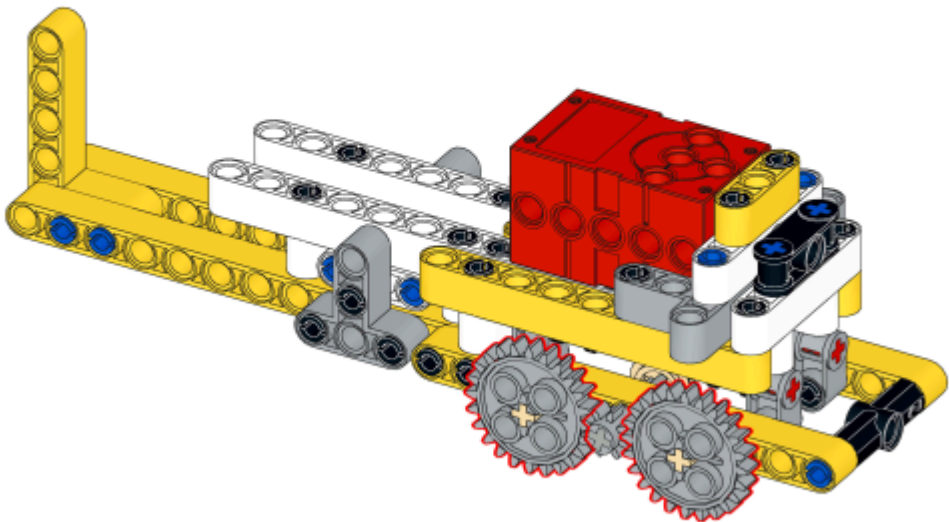
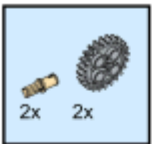
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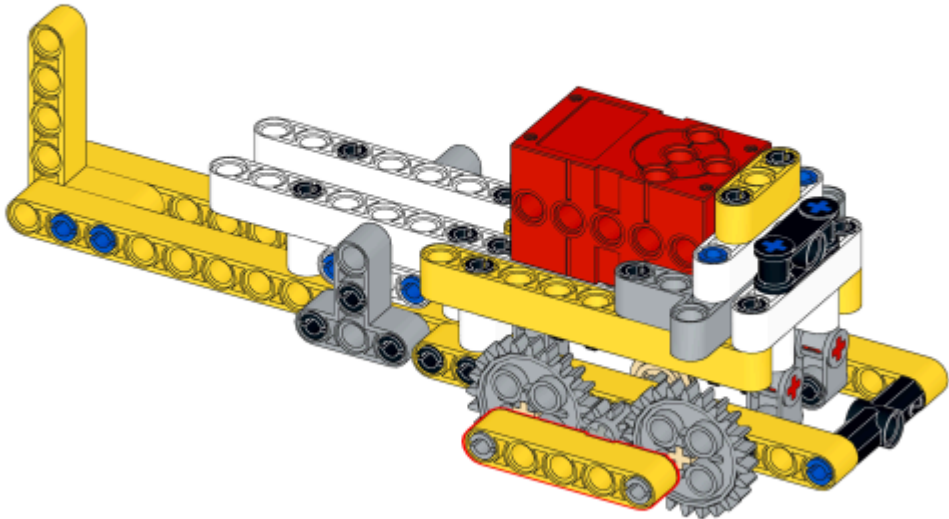
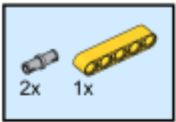
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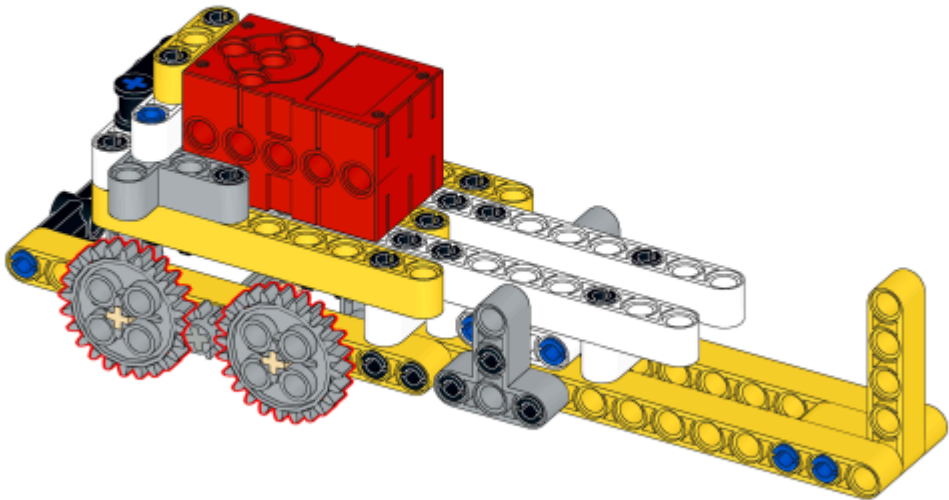
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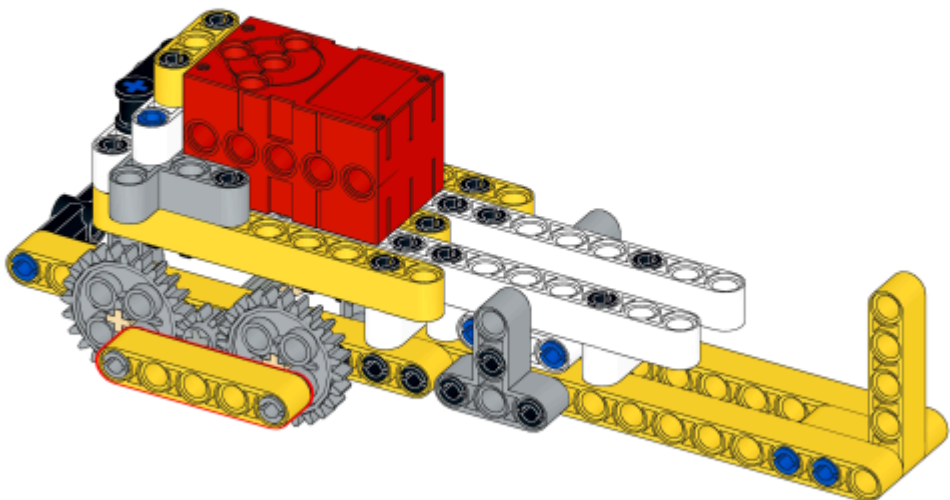
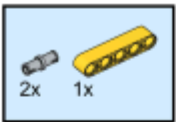
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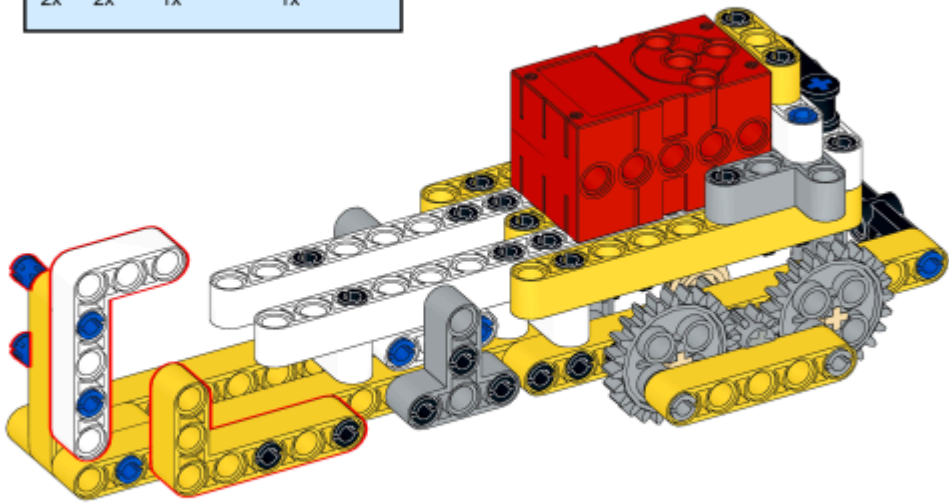
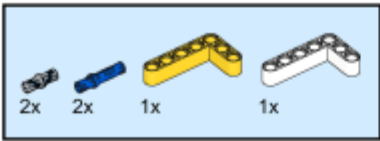
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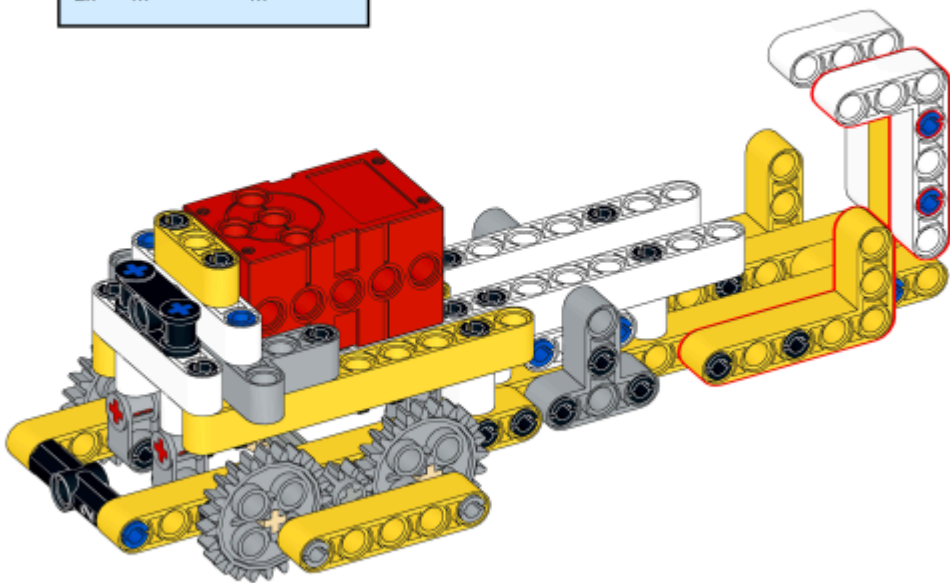
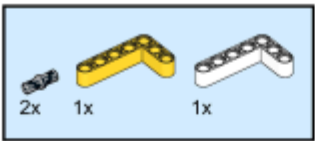
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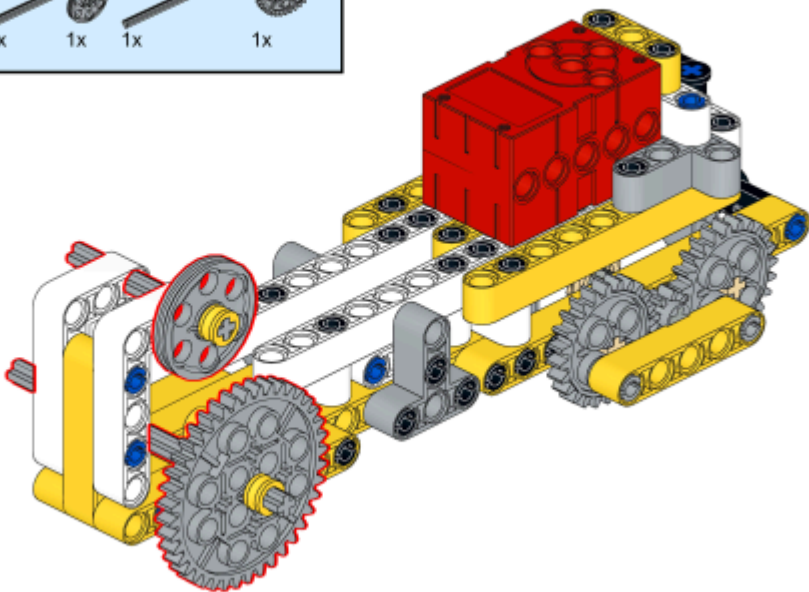
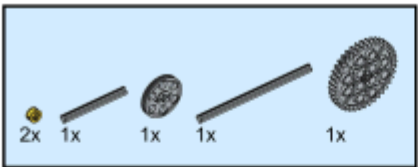
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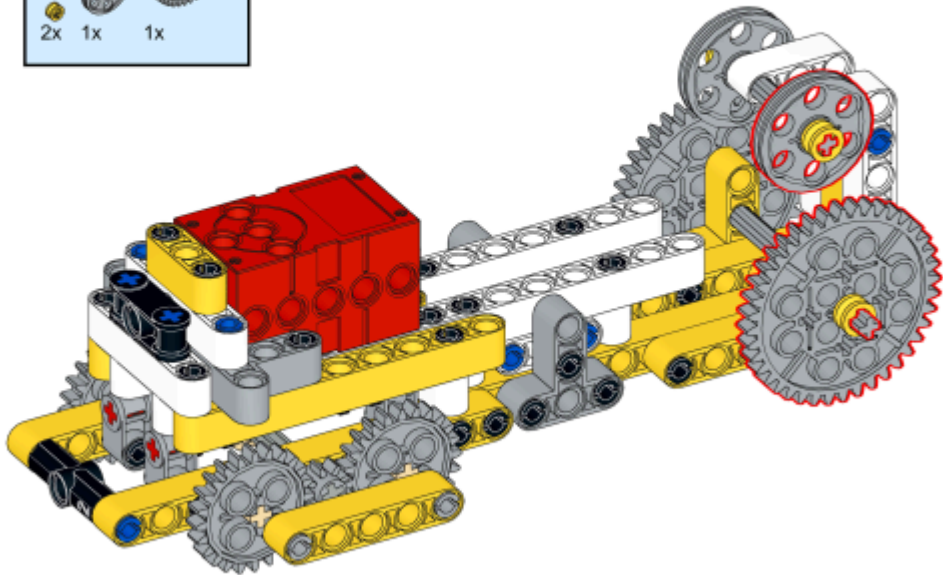
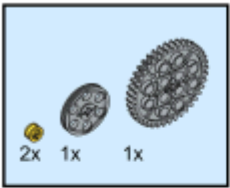
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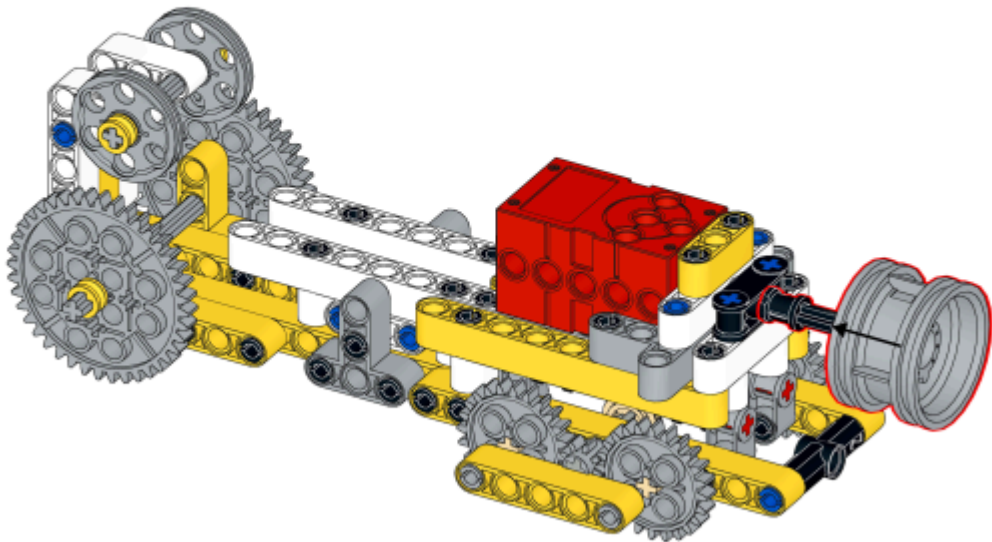
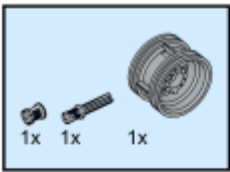
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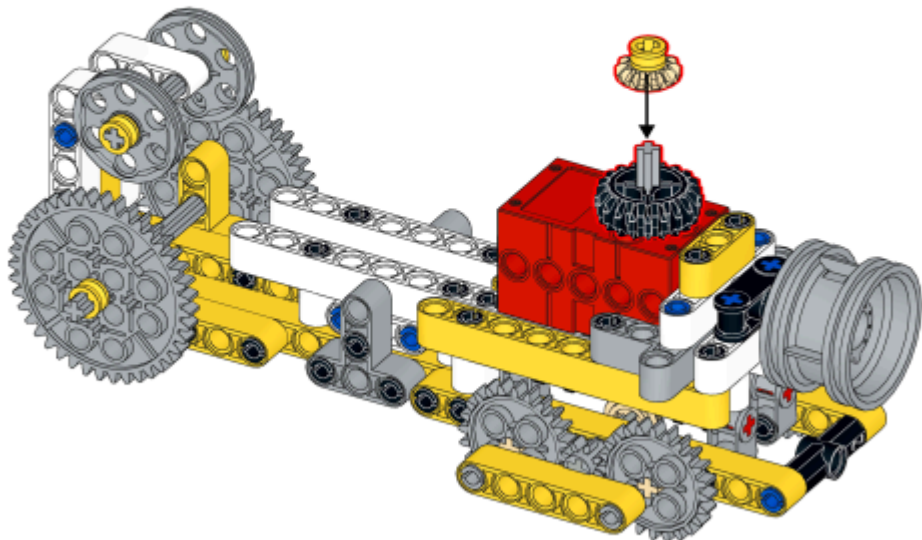
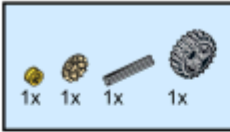
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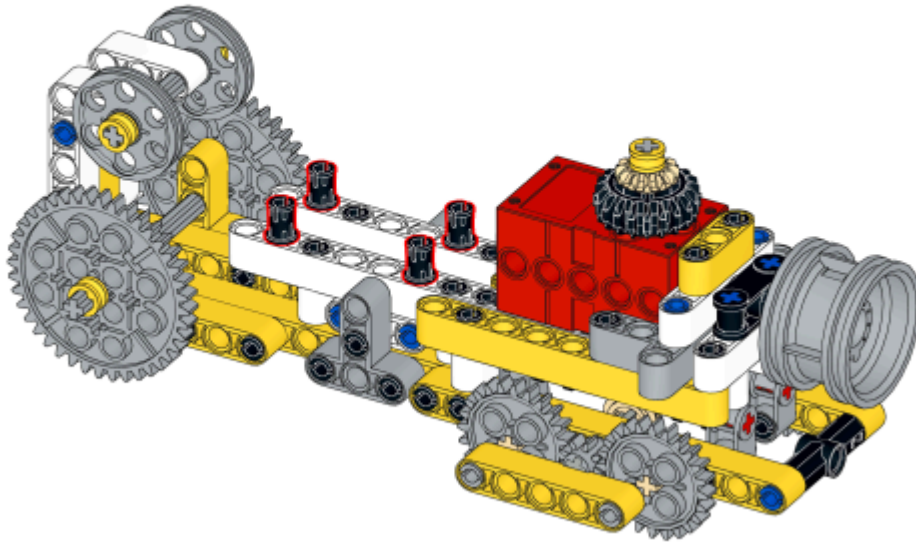
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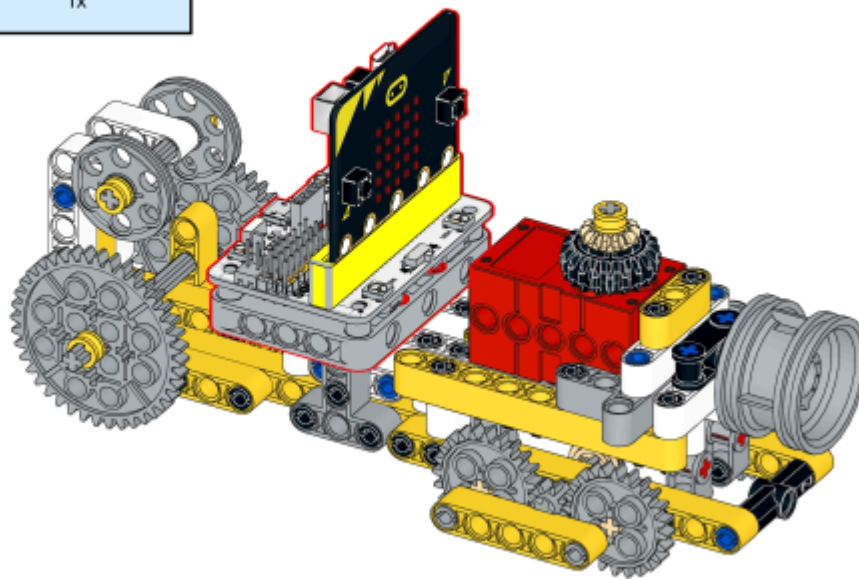
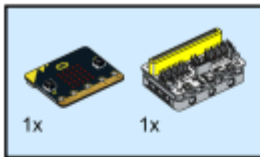
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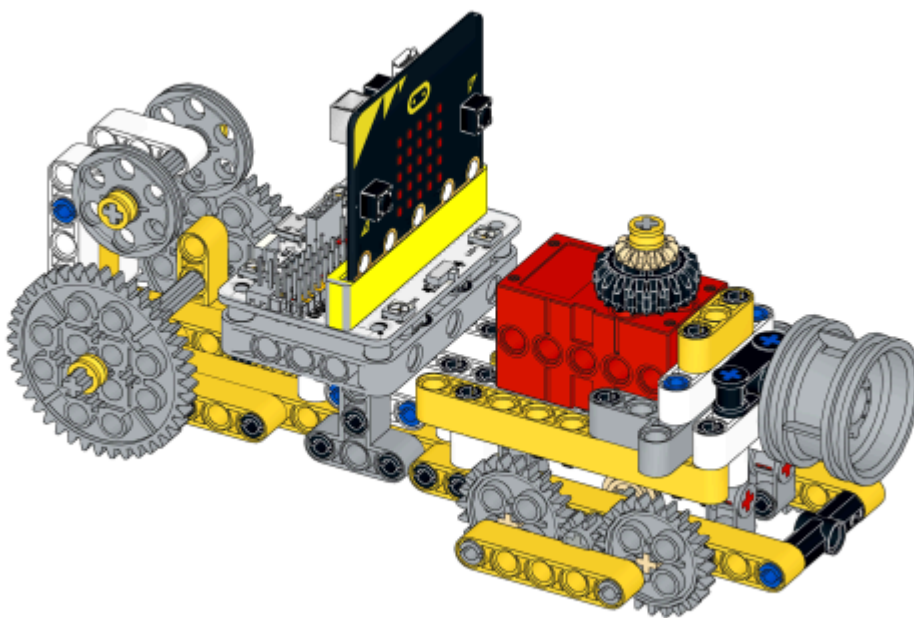
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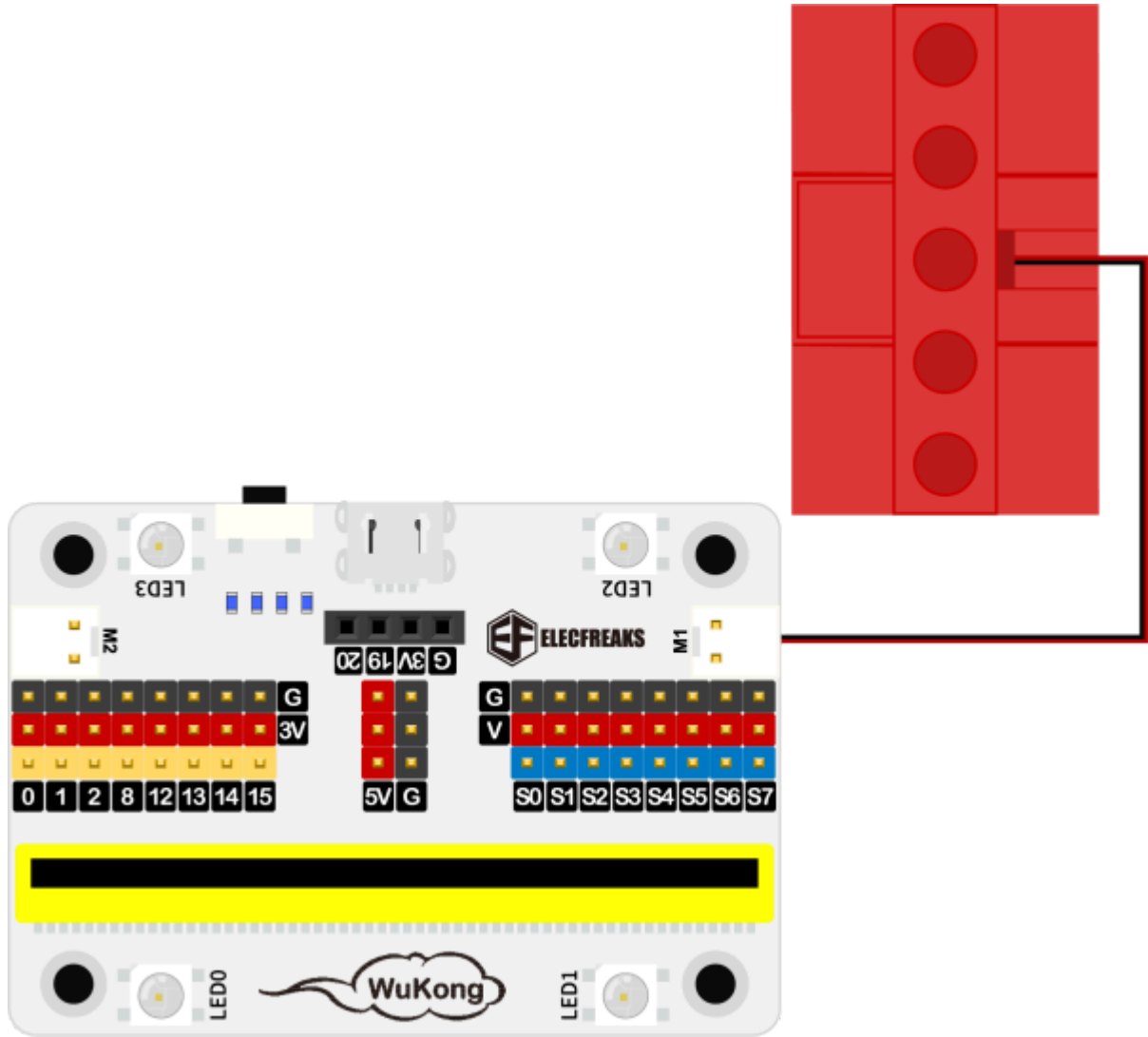


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25.5. Hardware Connection

Connect a [motor](#) to M1 port on [Wukong breakout board](#).



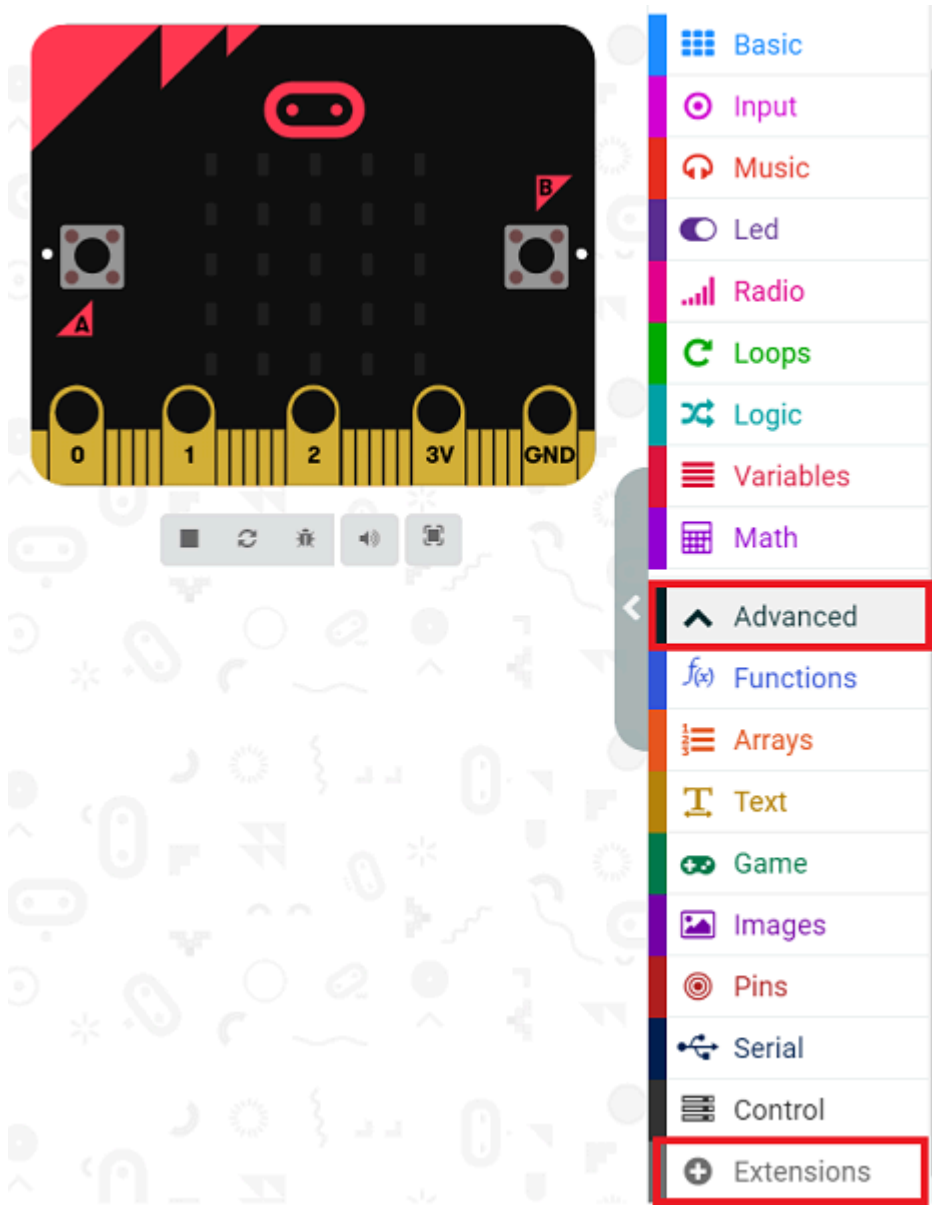
25.6. Software Platform

[MakeCode](#)

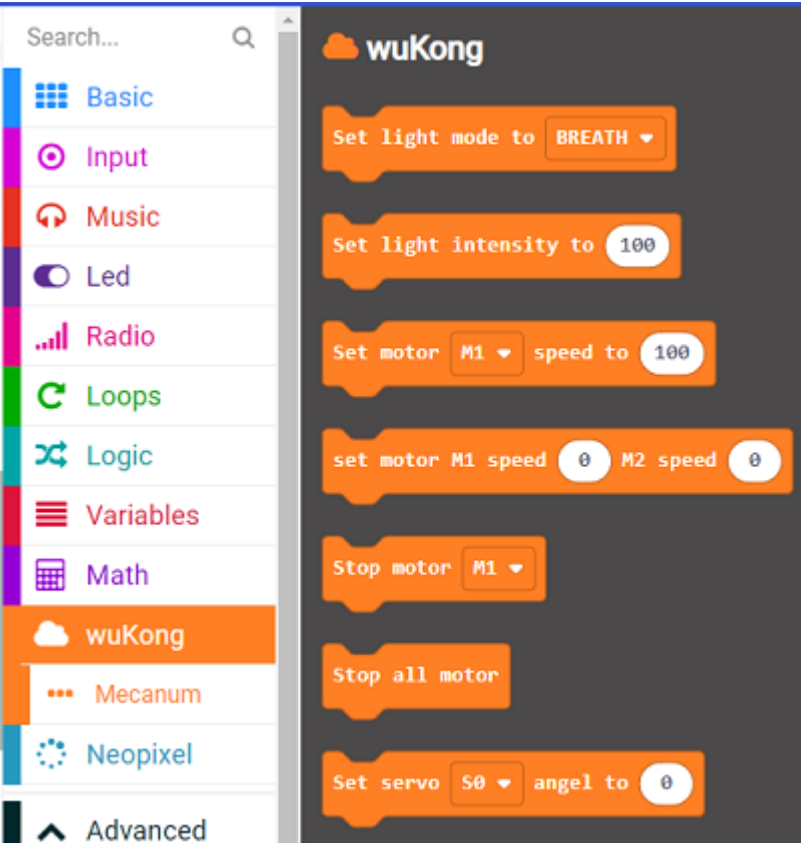
25.7. Coding

Add extensions

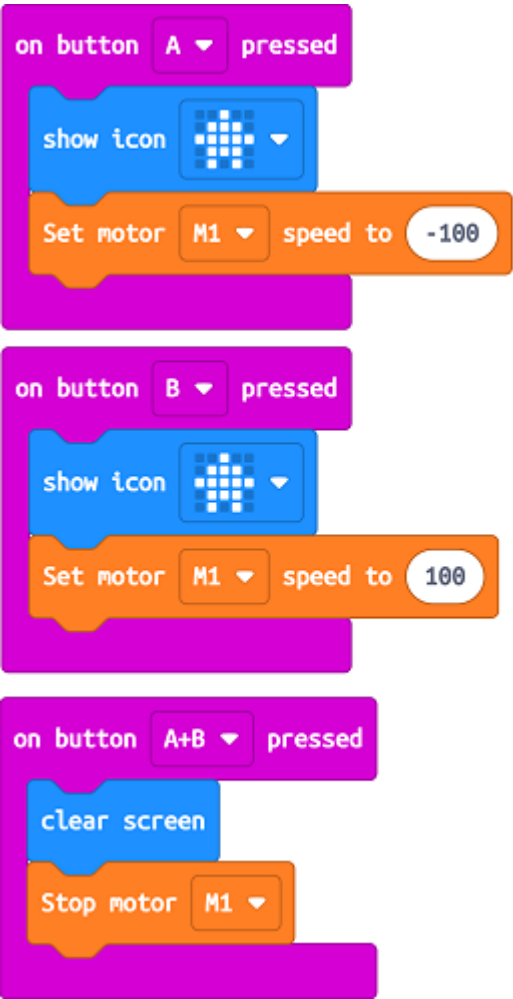
Click “Advanced” in the MakeCode to see more choices.



Search with Wukong in the dialogue box to download it.



Program



Link:https://makecode.microbit.org/_5WjDde1jAF6R

Result

When button A is pressed, the locomotive moves forward; when button B is pressed, the locomotive moves backward; when button A+B is pressed, the locomotive stops moving.