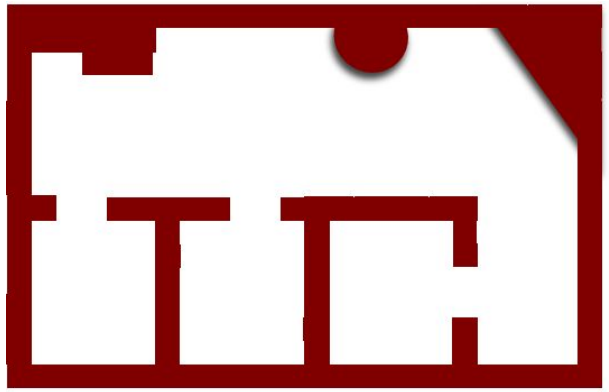
Frontier Based Algorithm Simulation

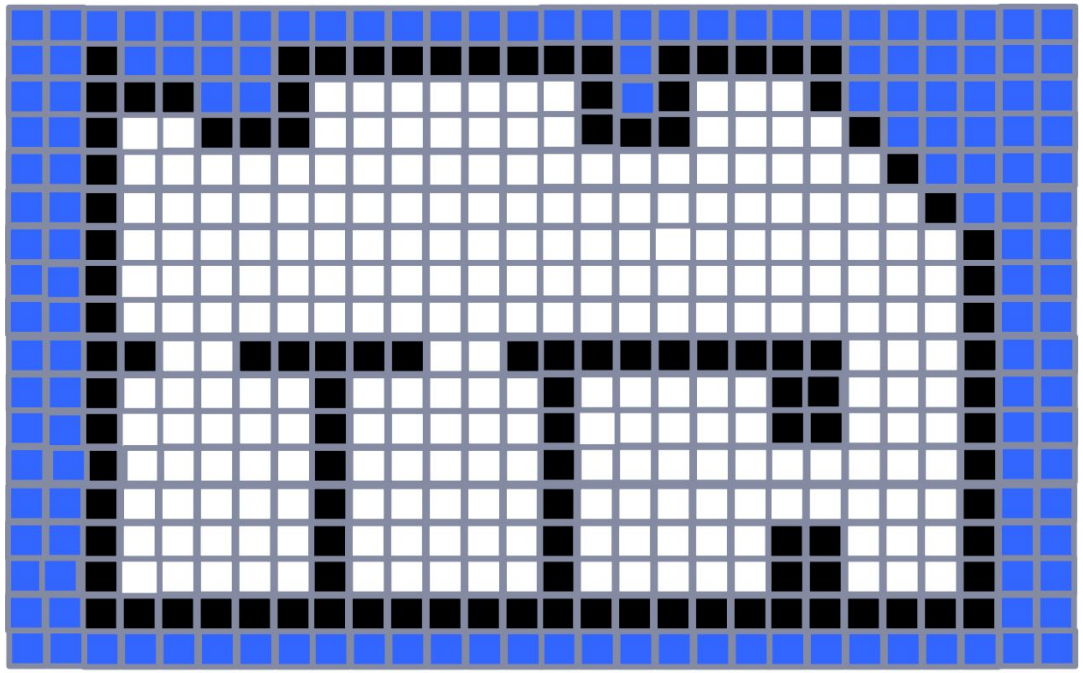
Md. Khalilur Rhaman
Brac University

What is an Occupancy Grid?

- A way of representing a map as a gridded world where each cell is either “occupied” or “empty” or “unknown”.



Your World



Grid generated by a Robot => boundary shape

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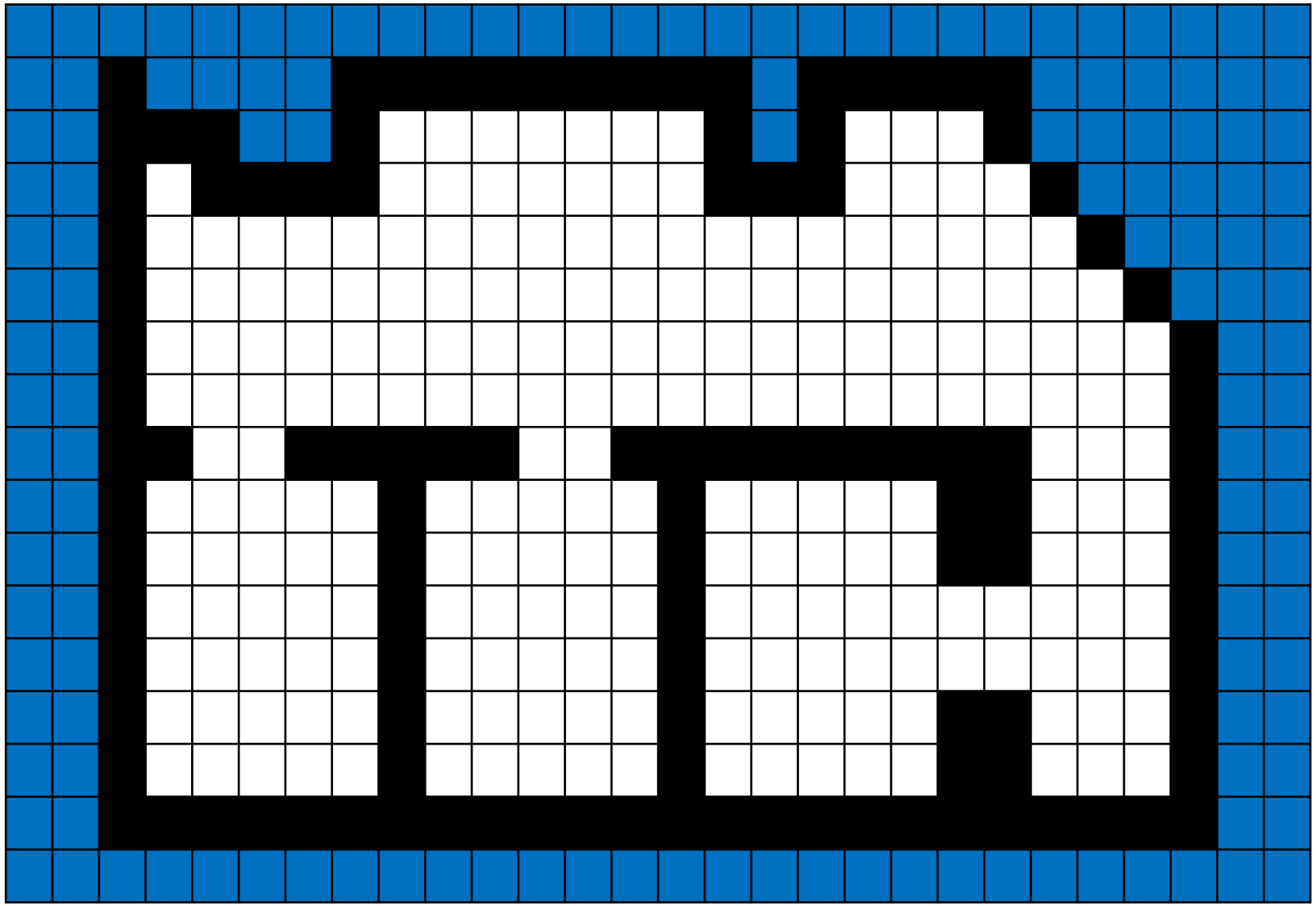

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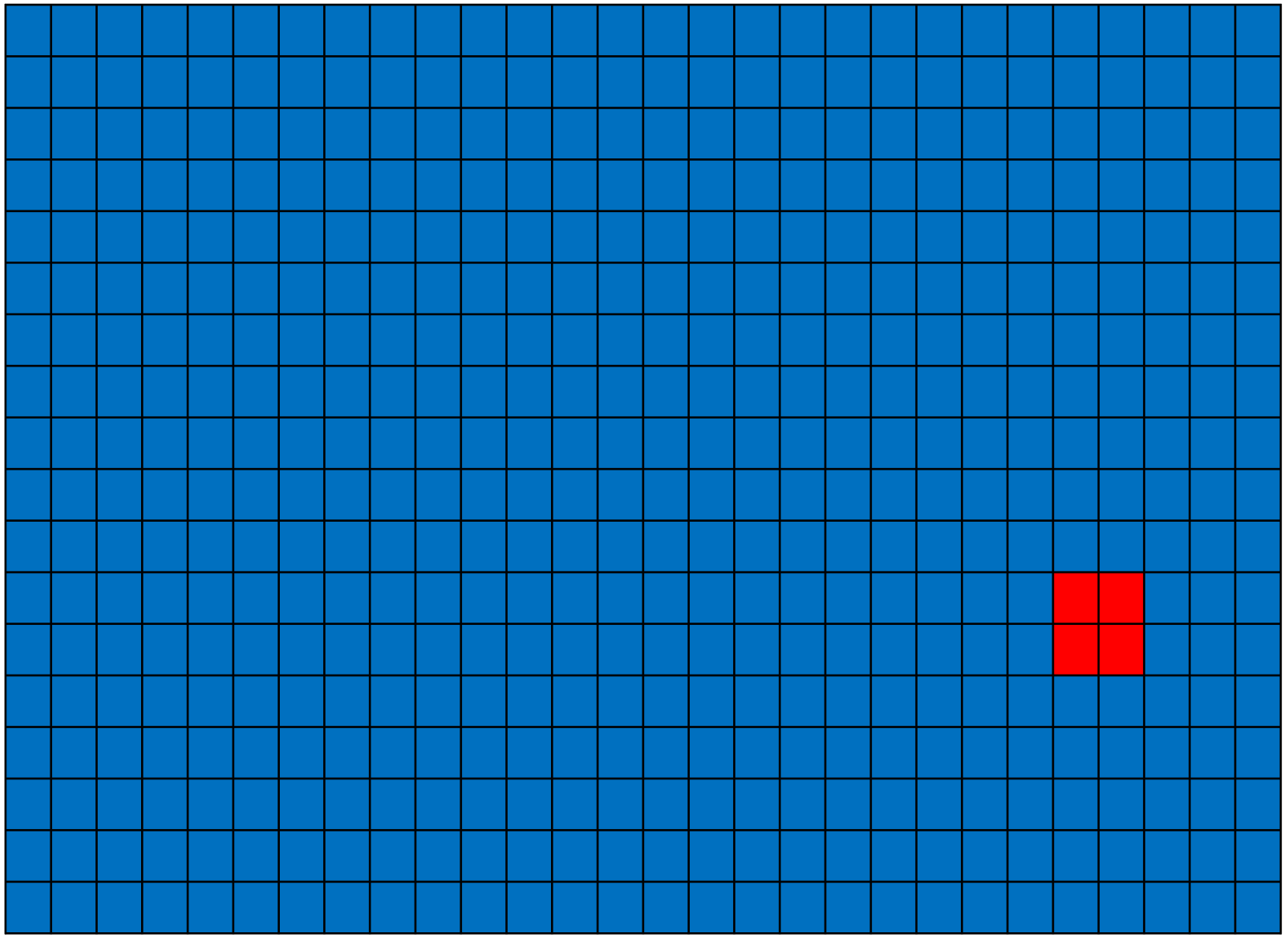

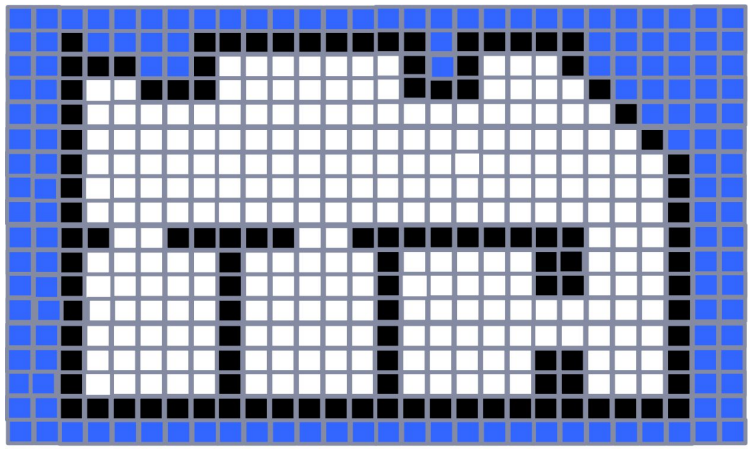

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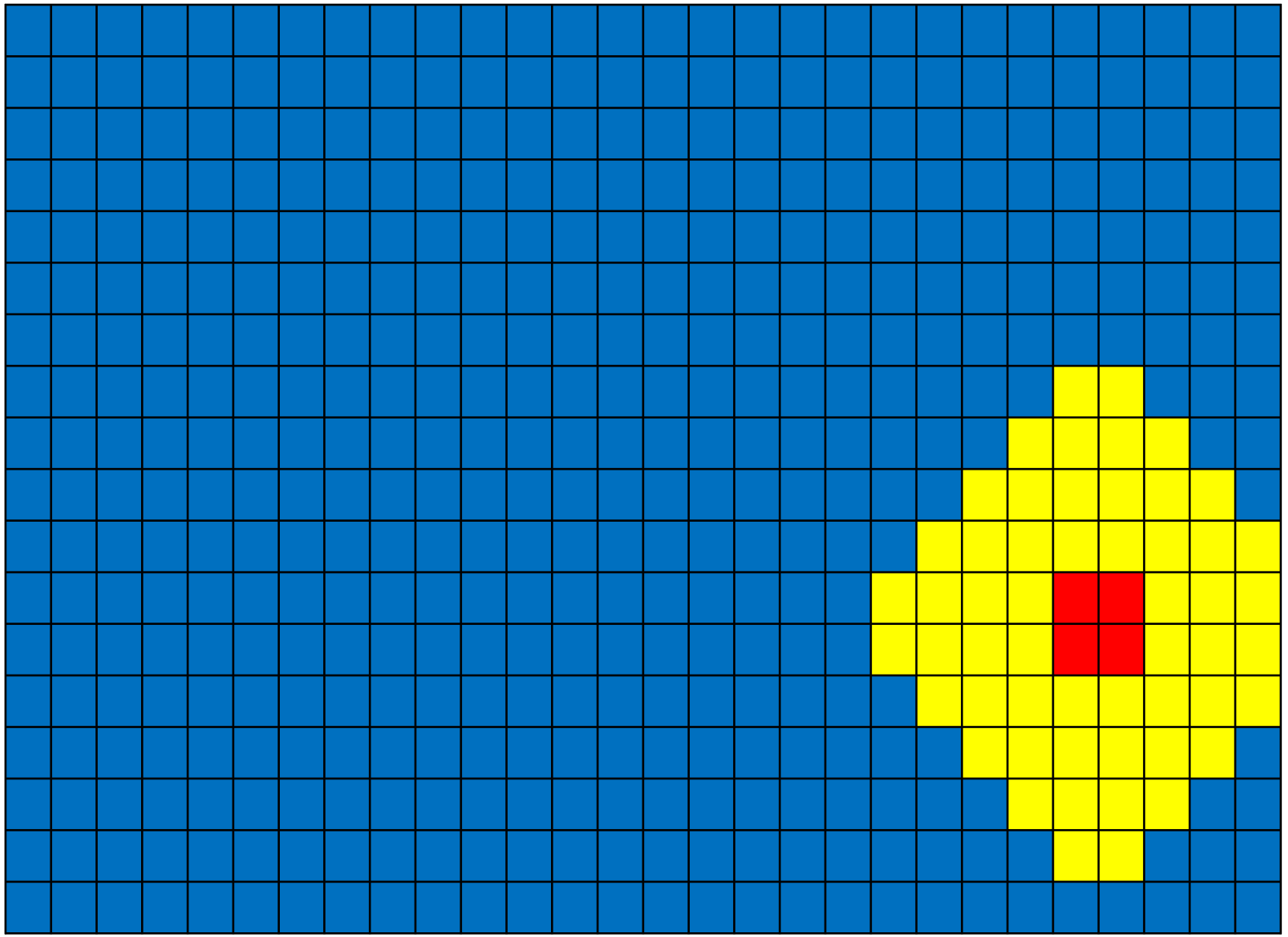

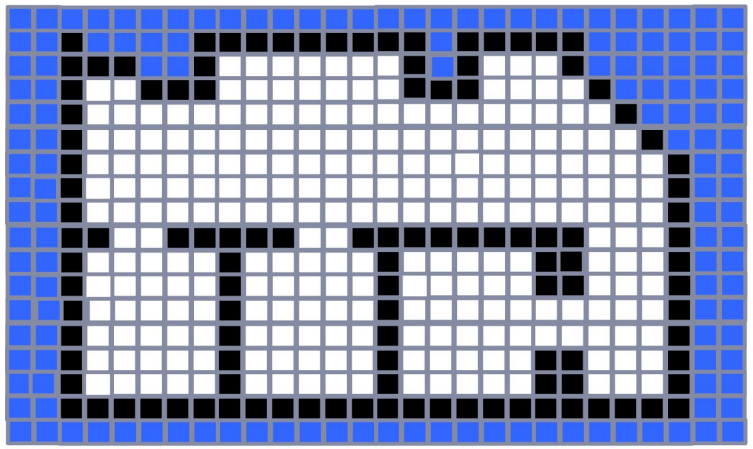

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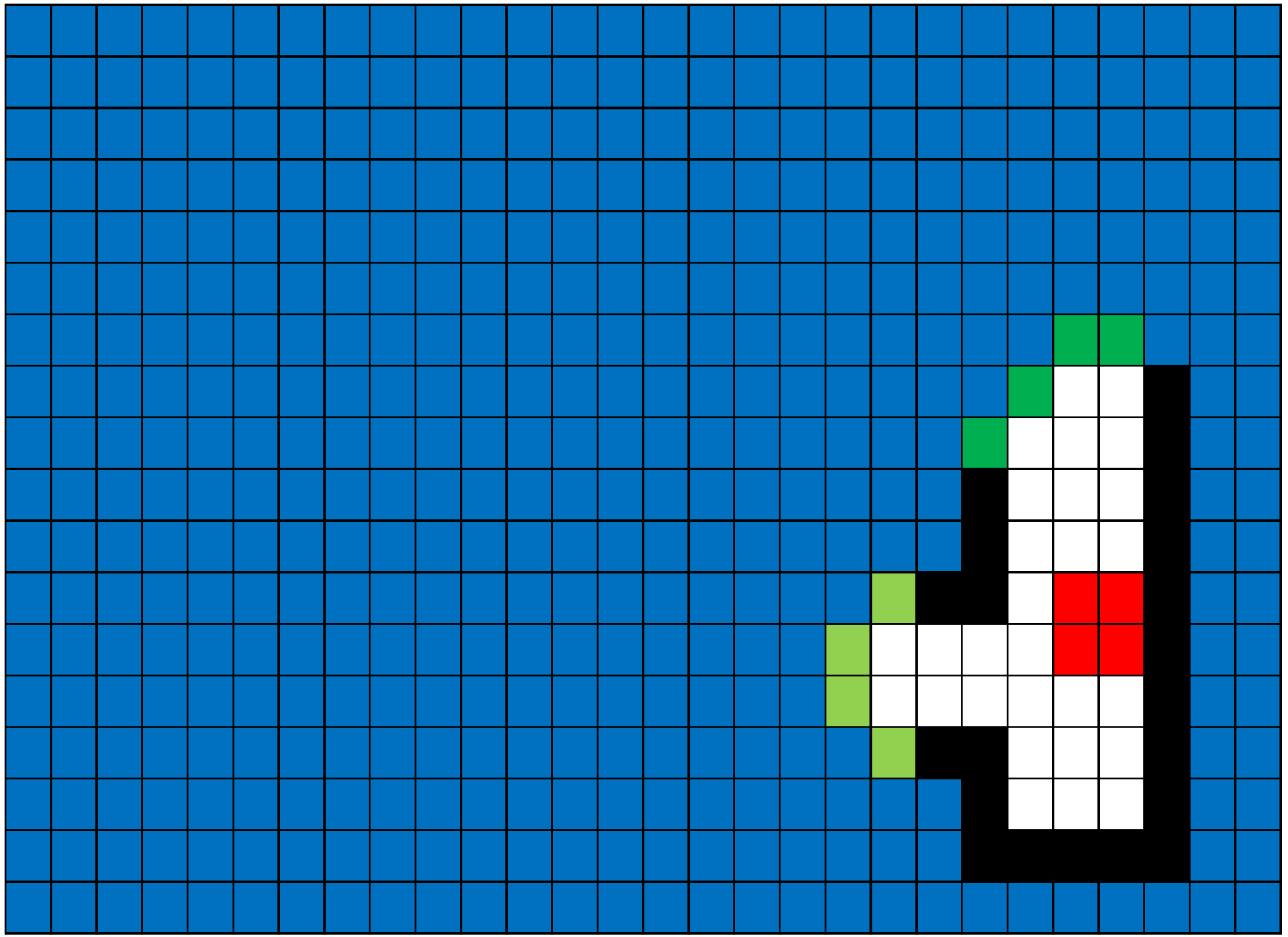

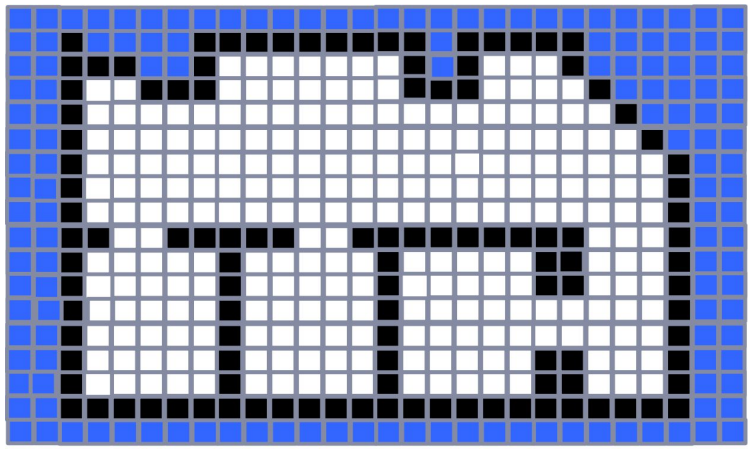

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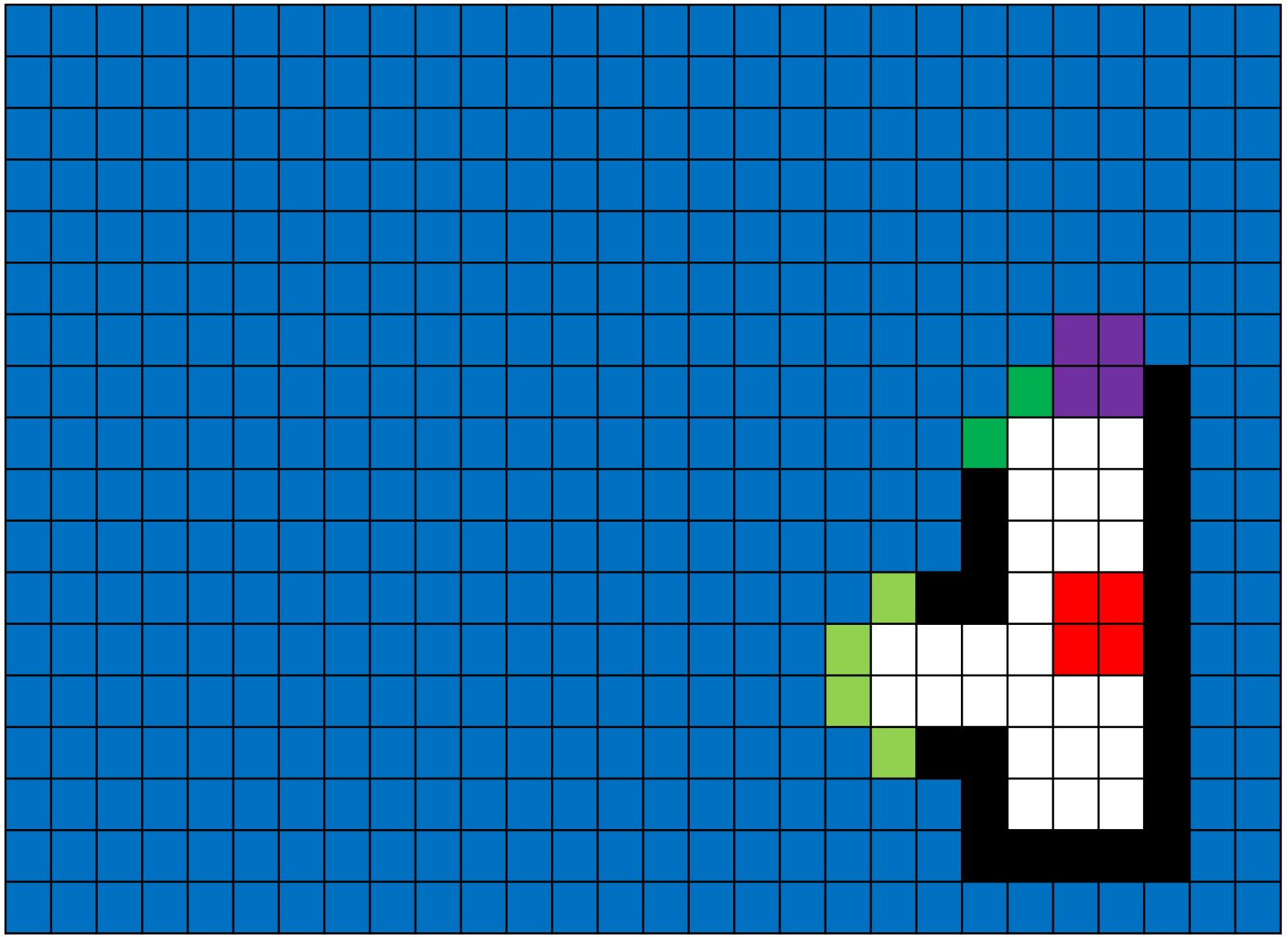

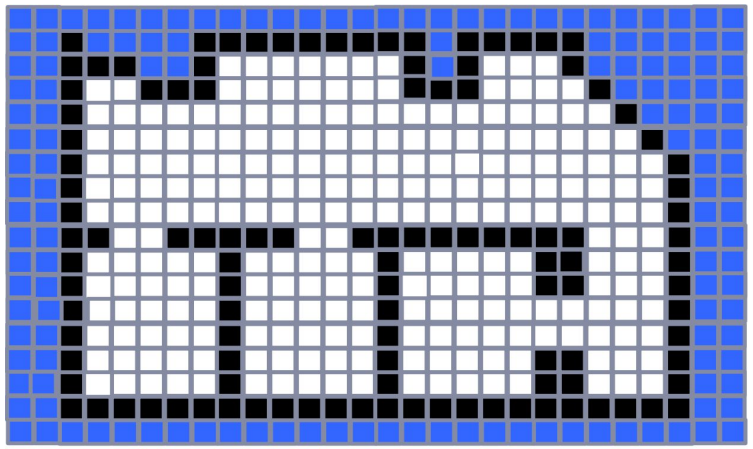

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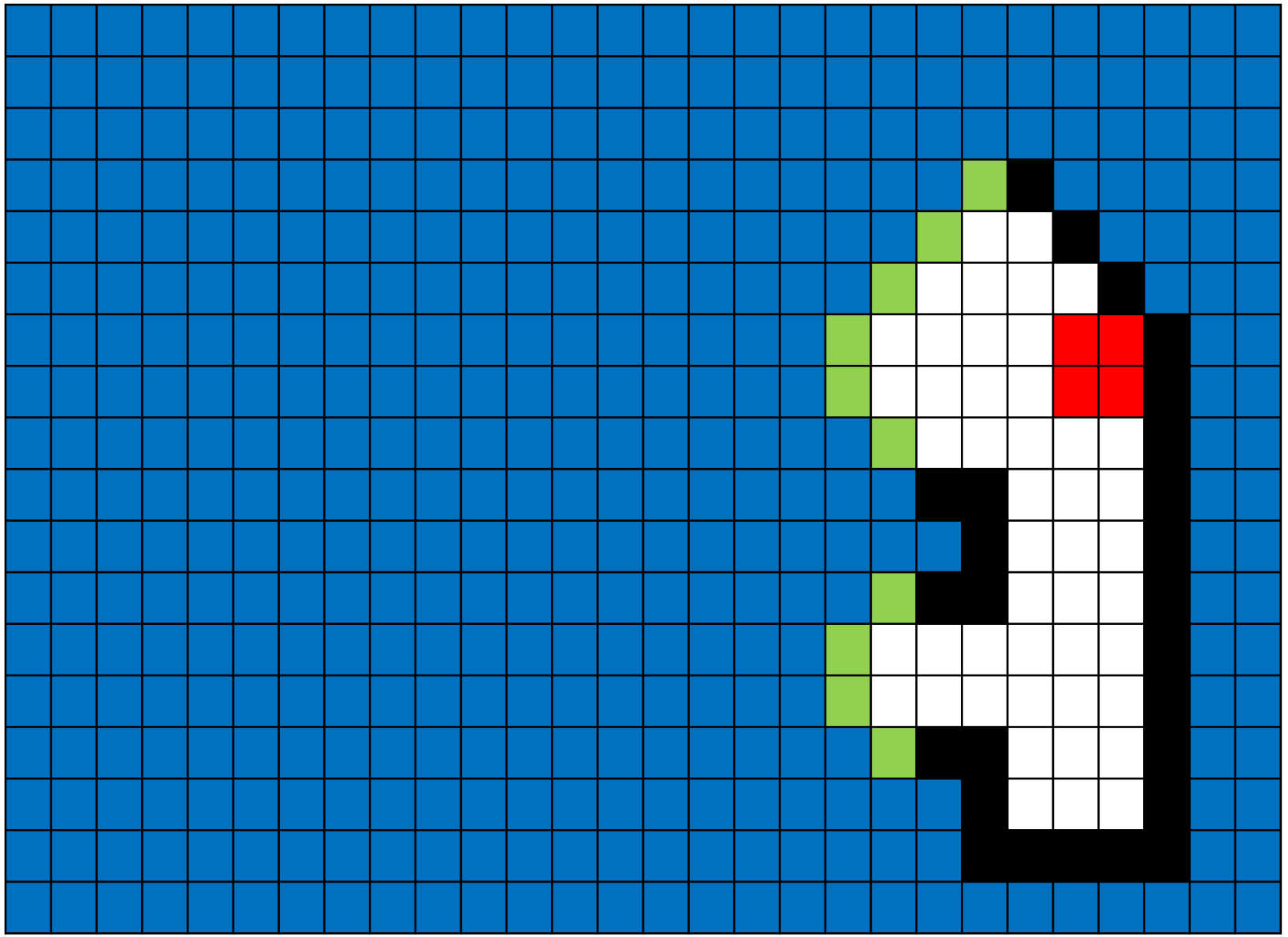

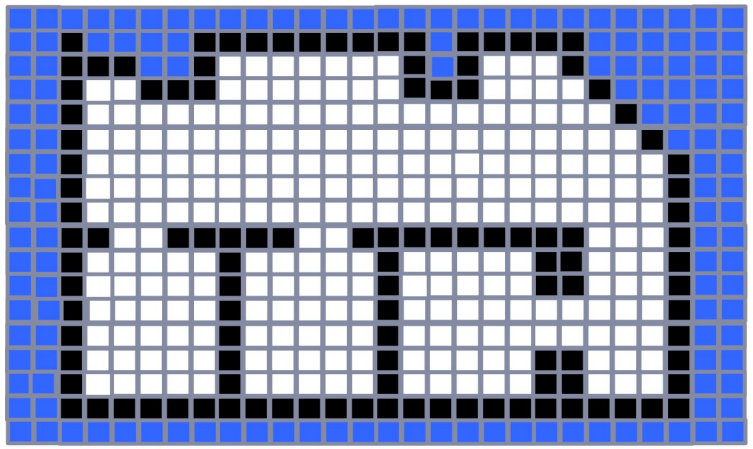

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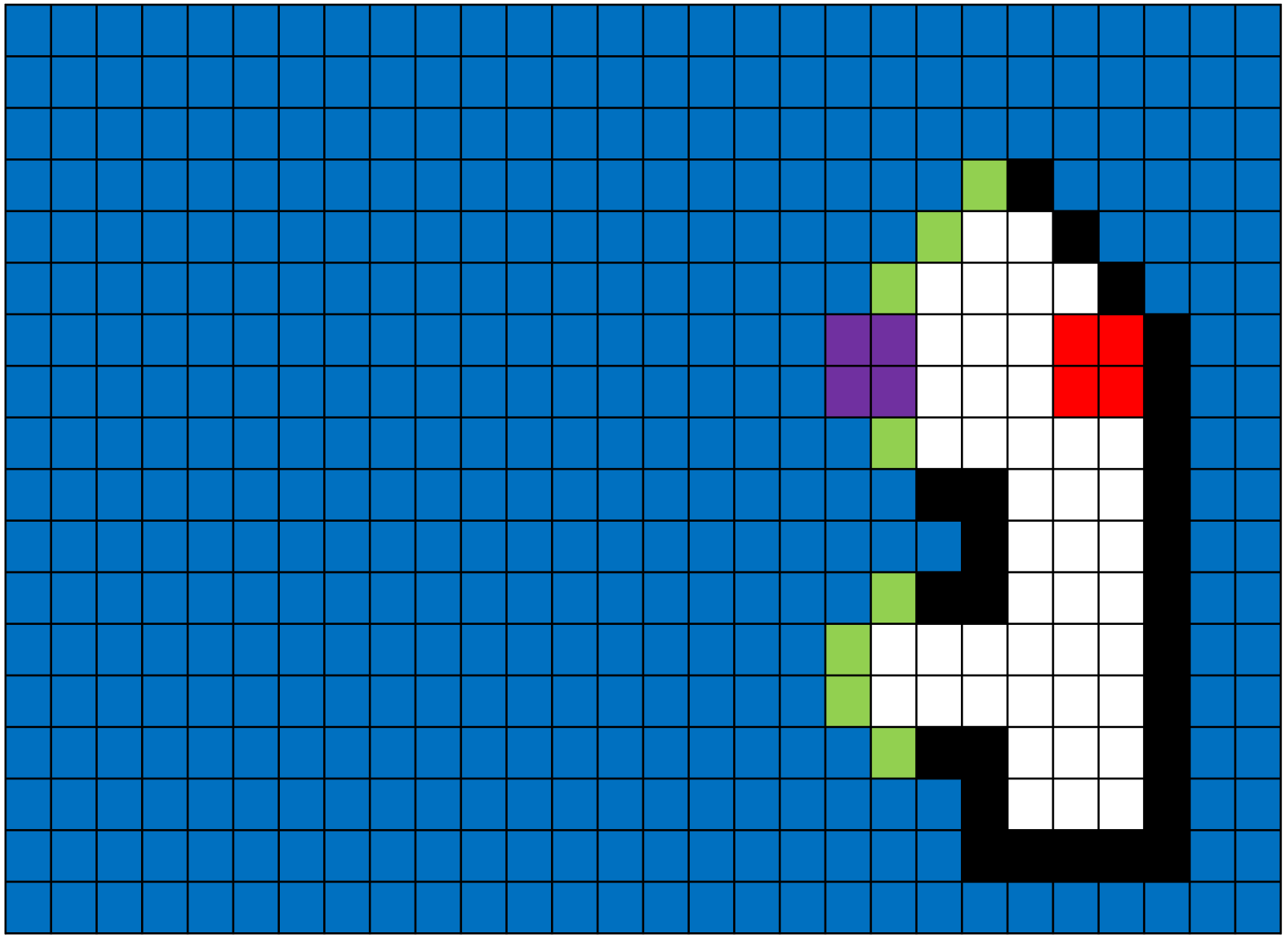

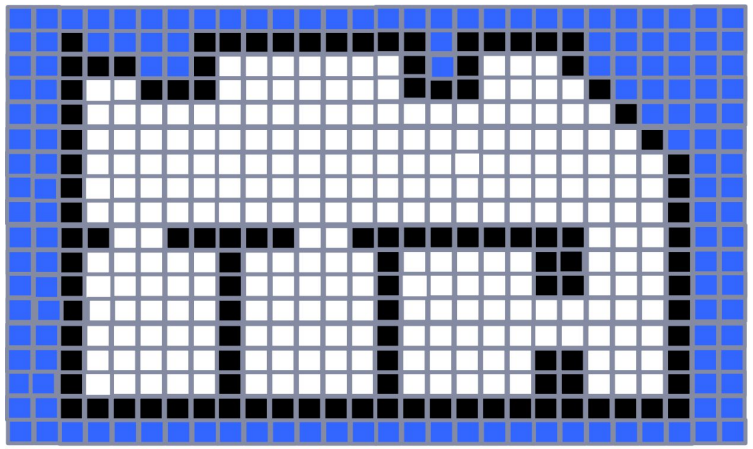

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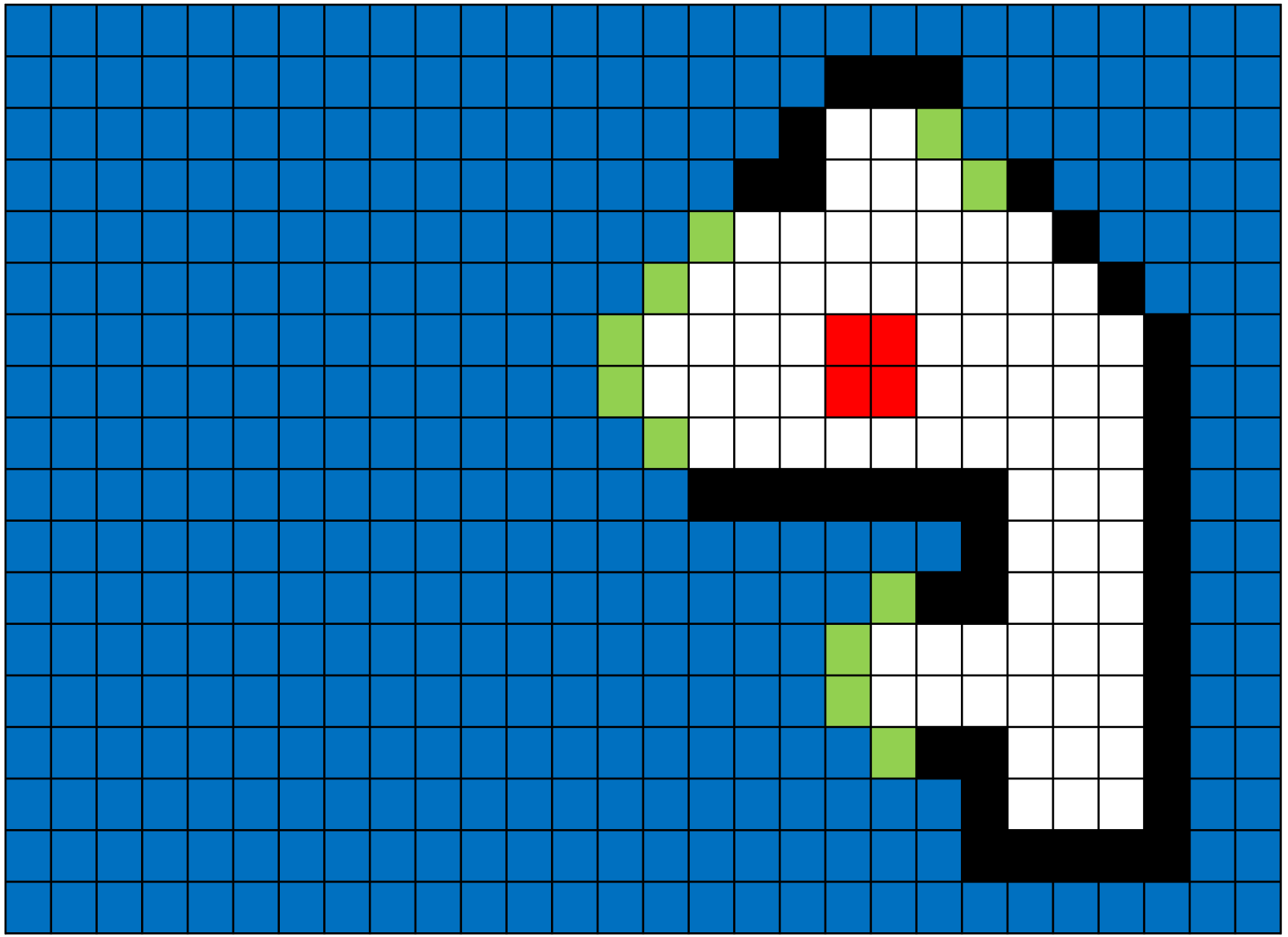

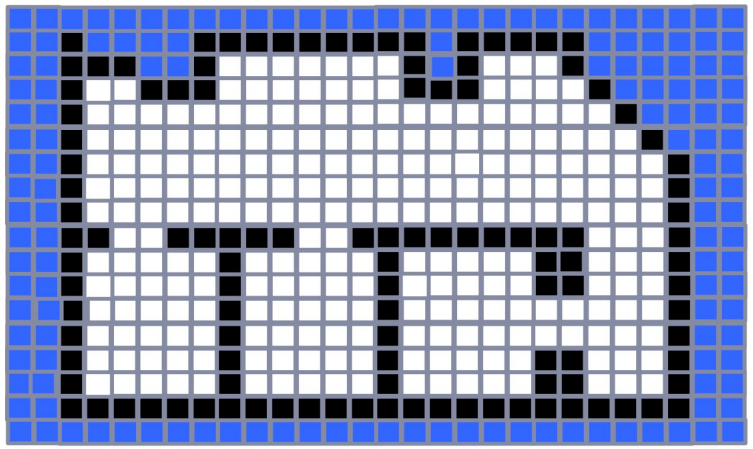

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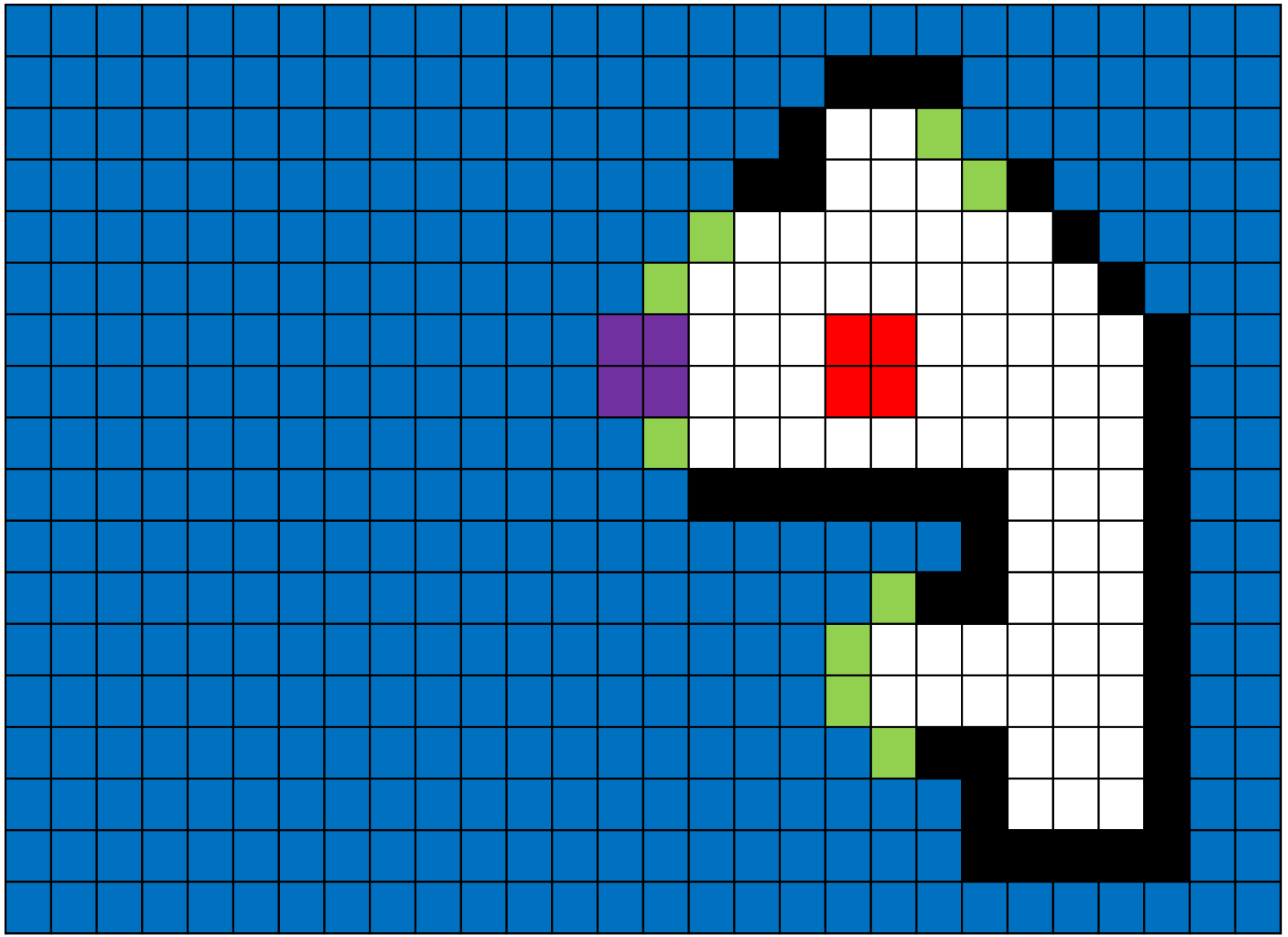

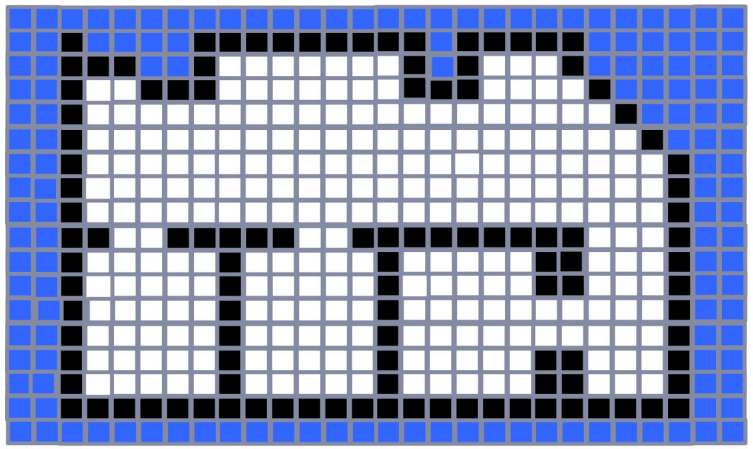

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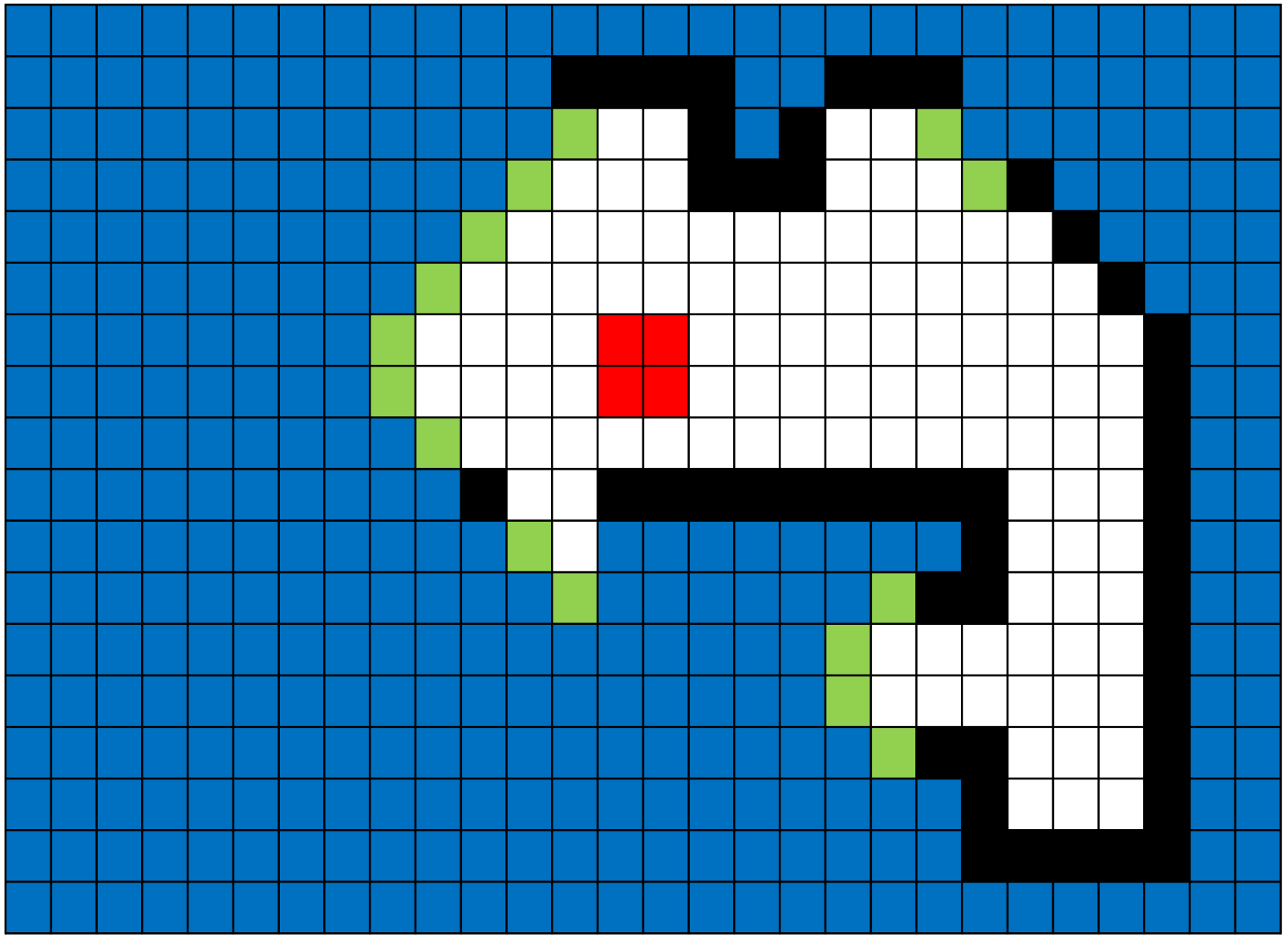

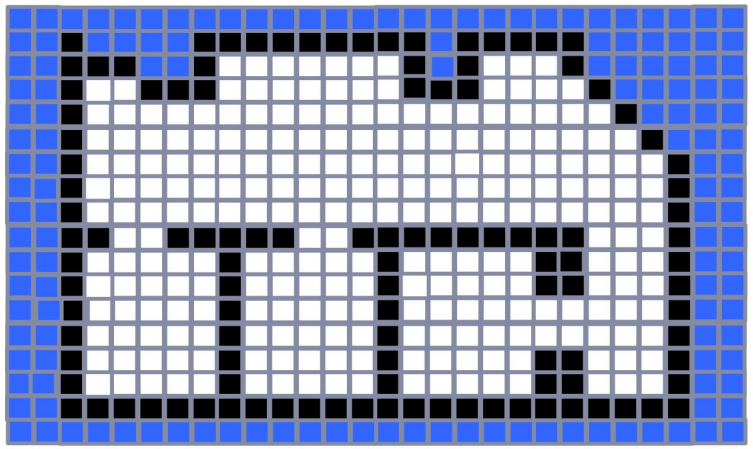

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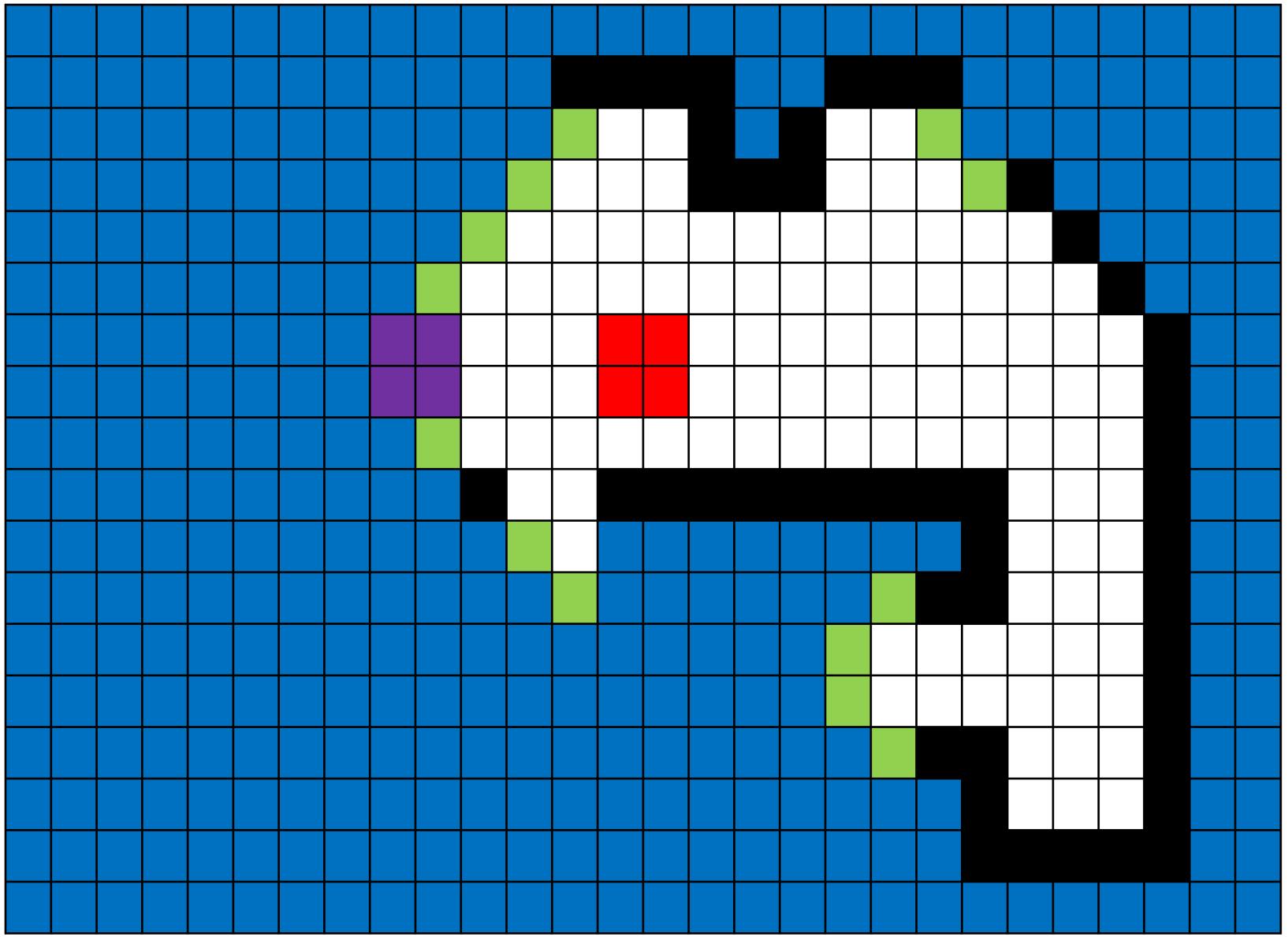

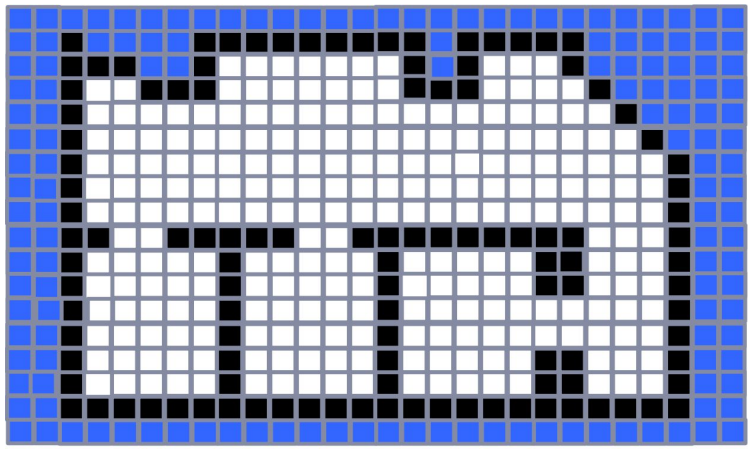

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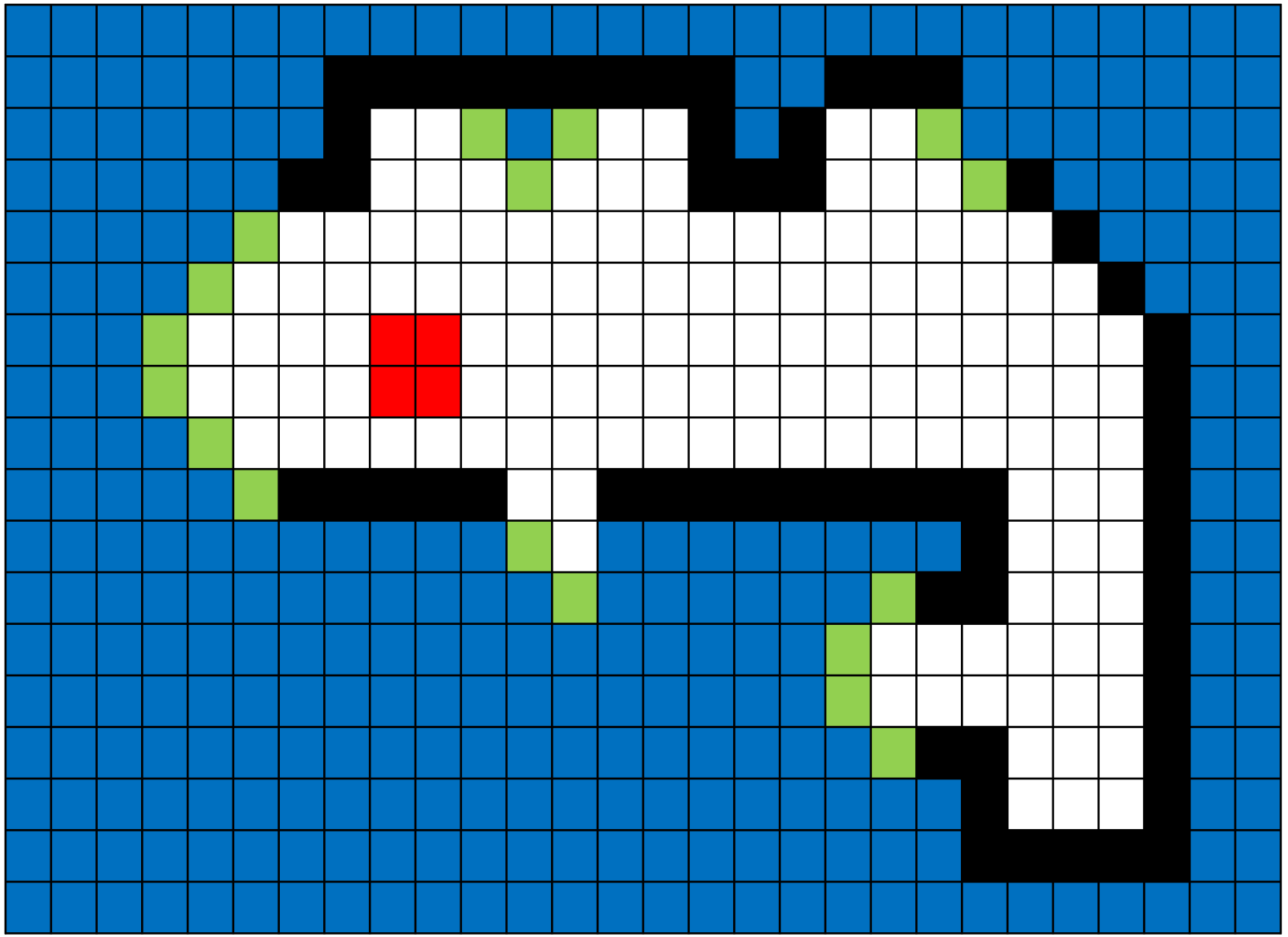

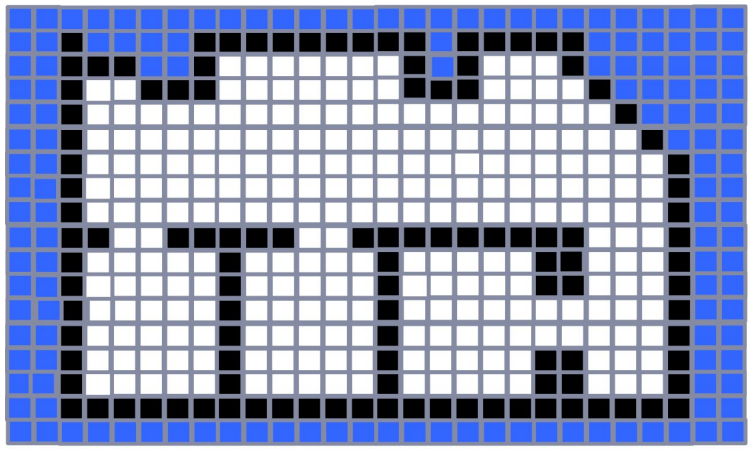

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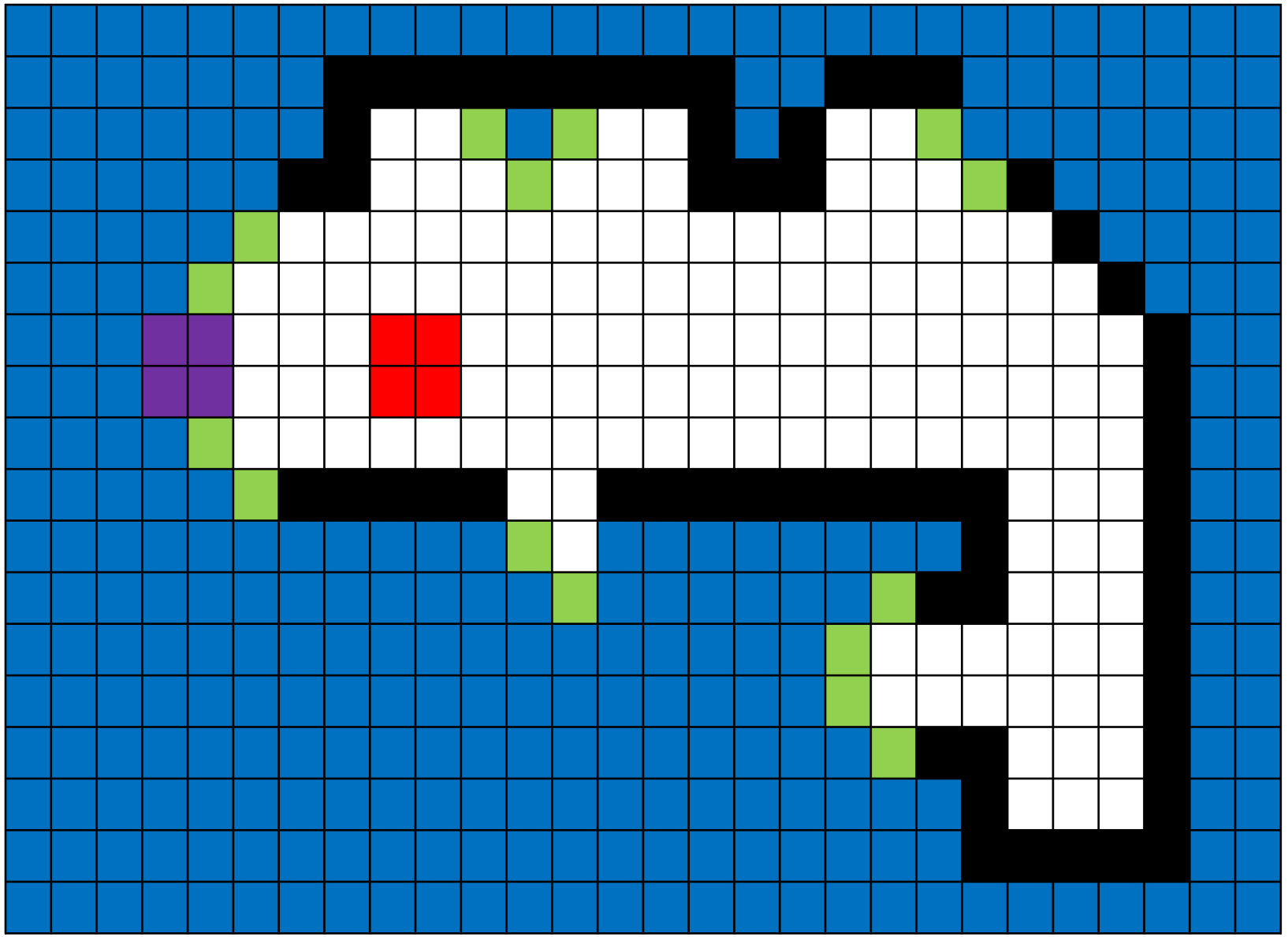

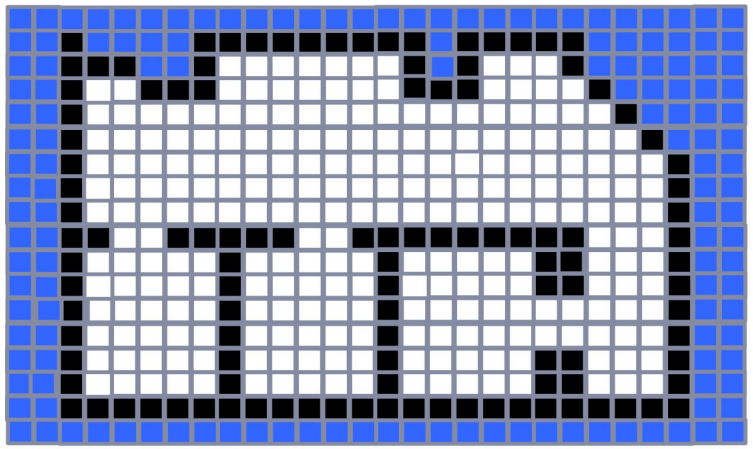

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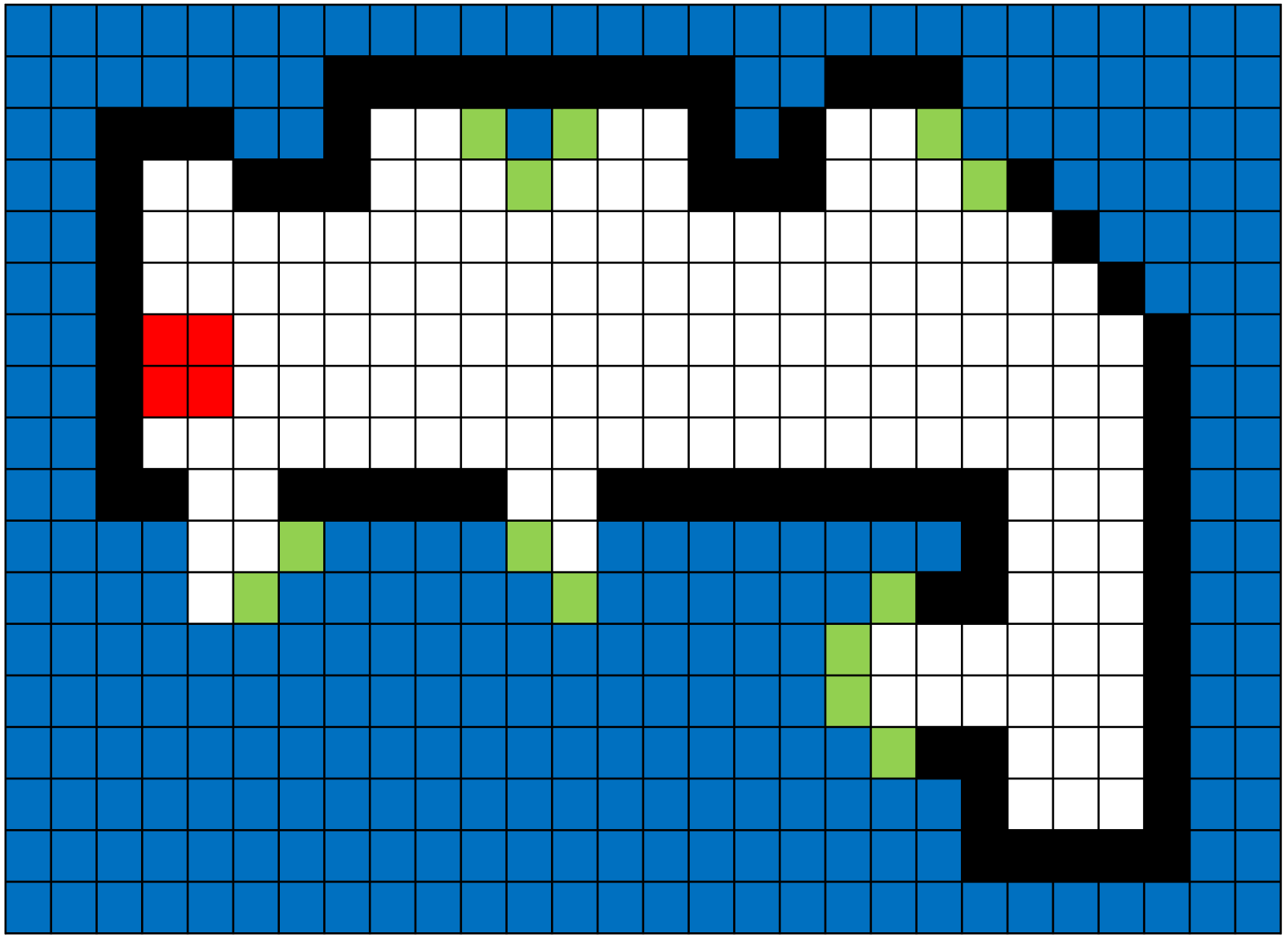

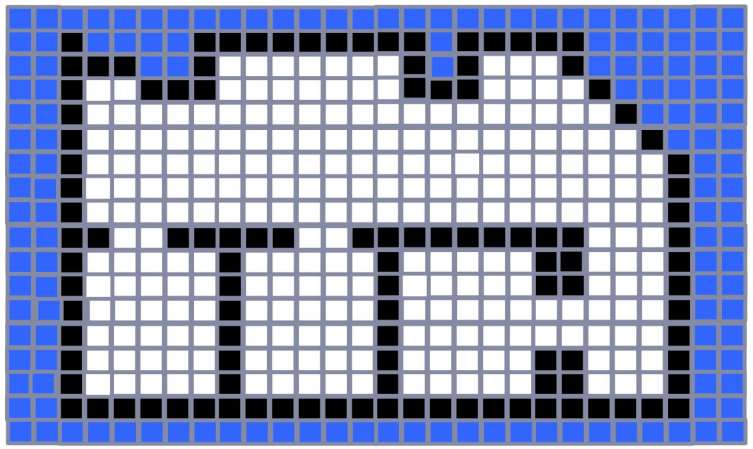

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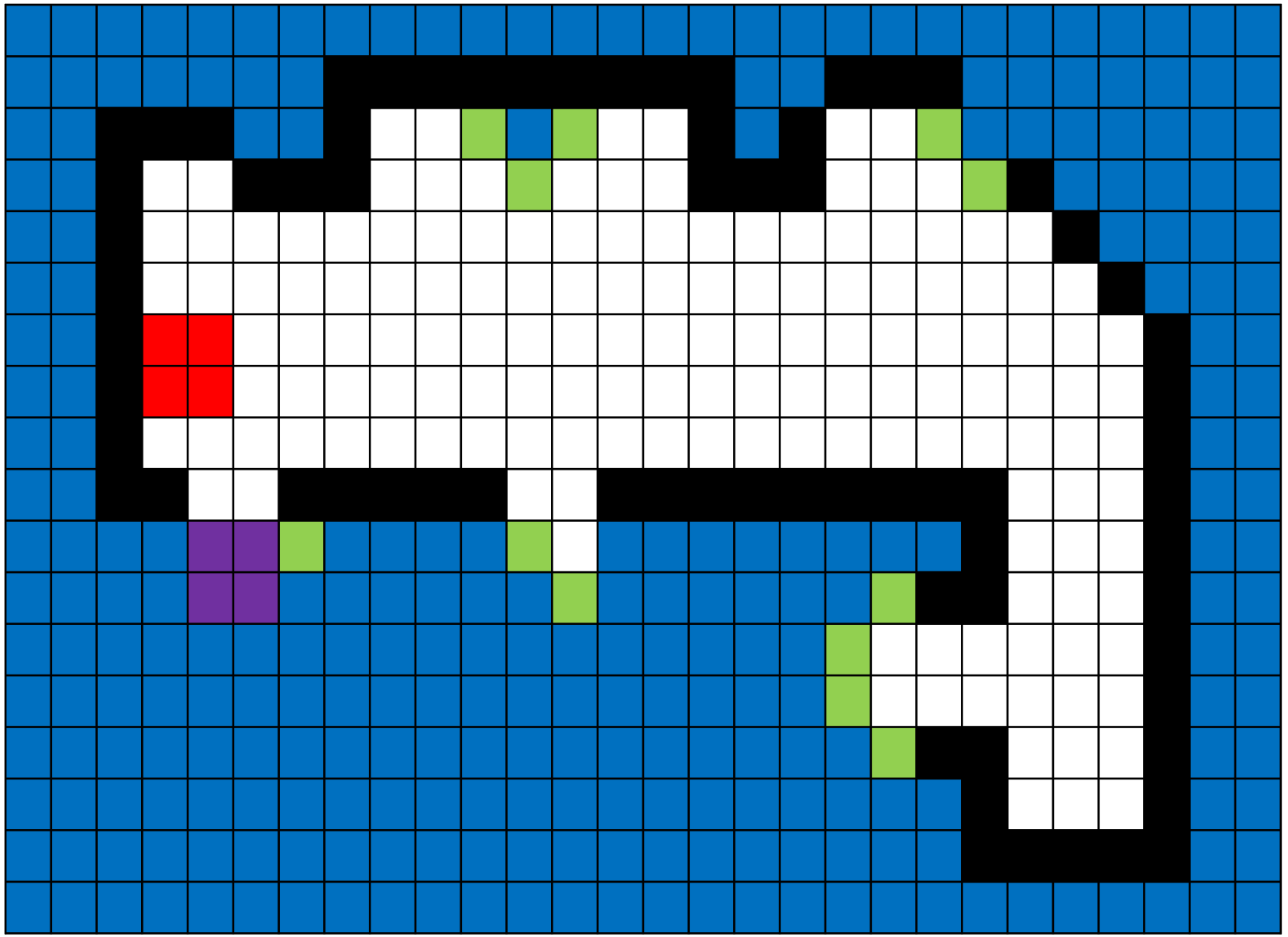

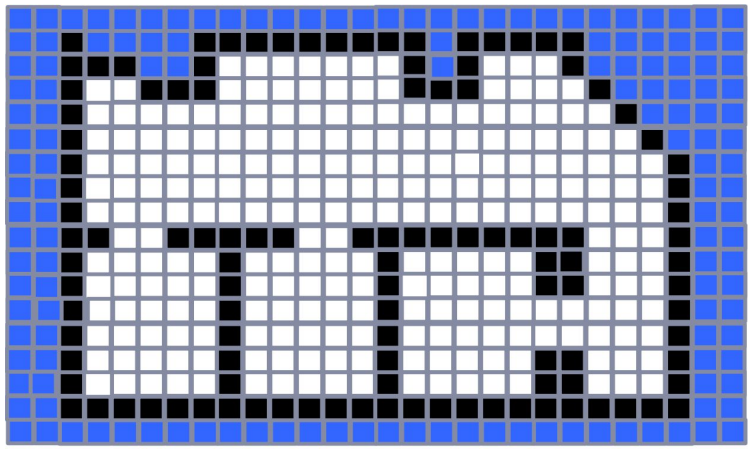

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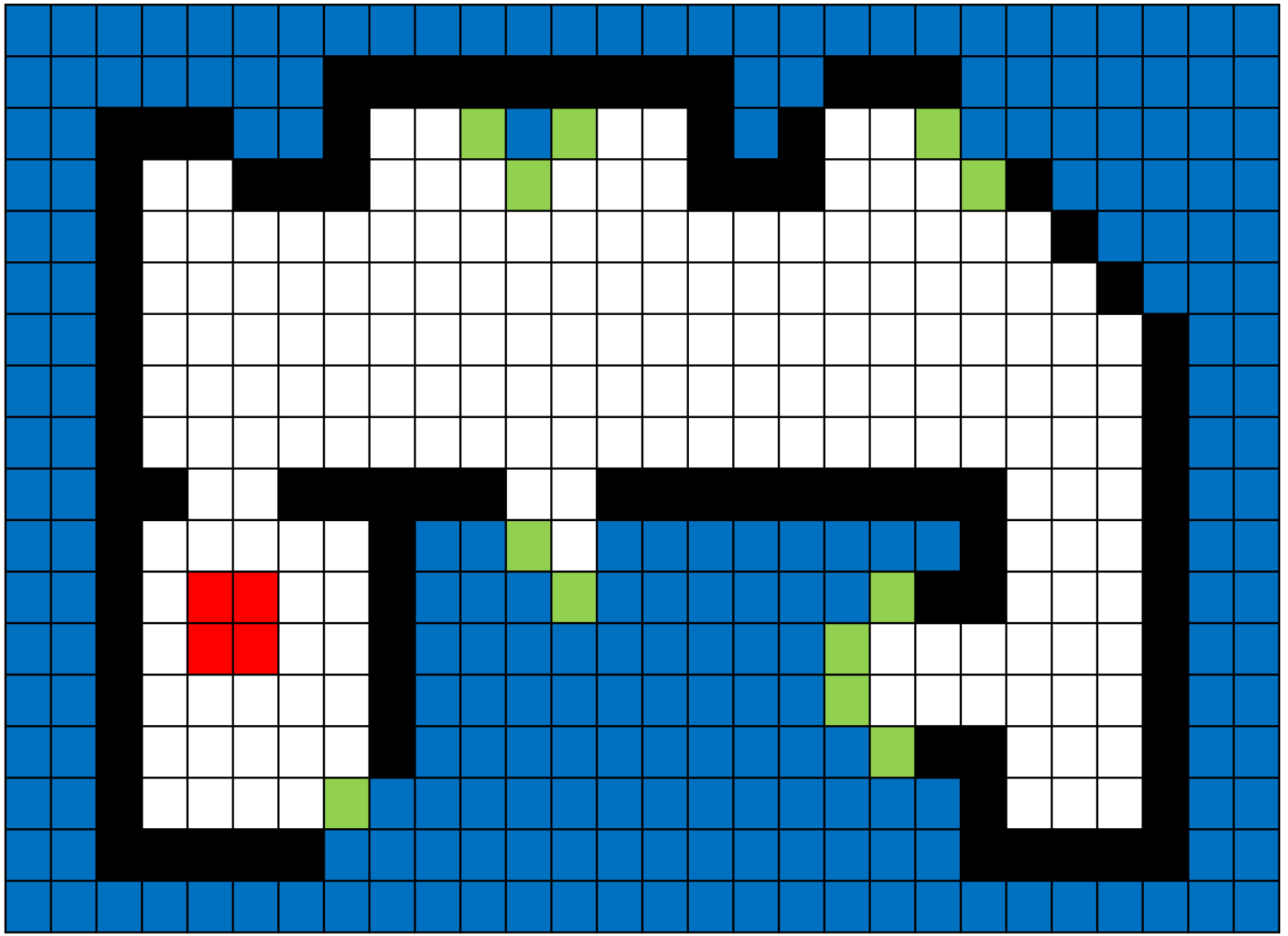

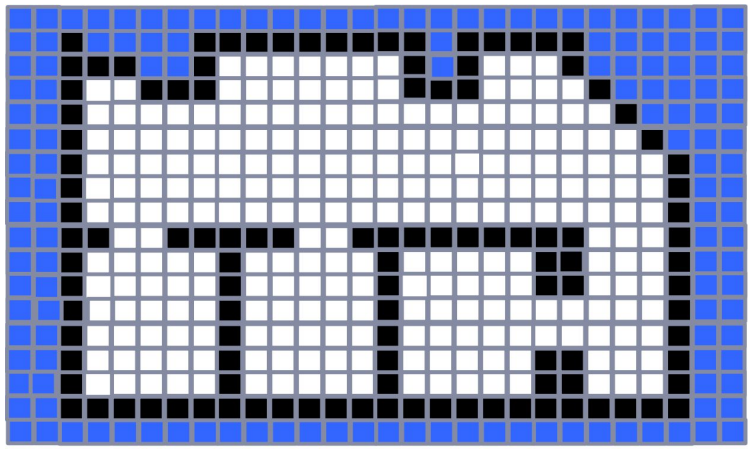

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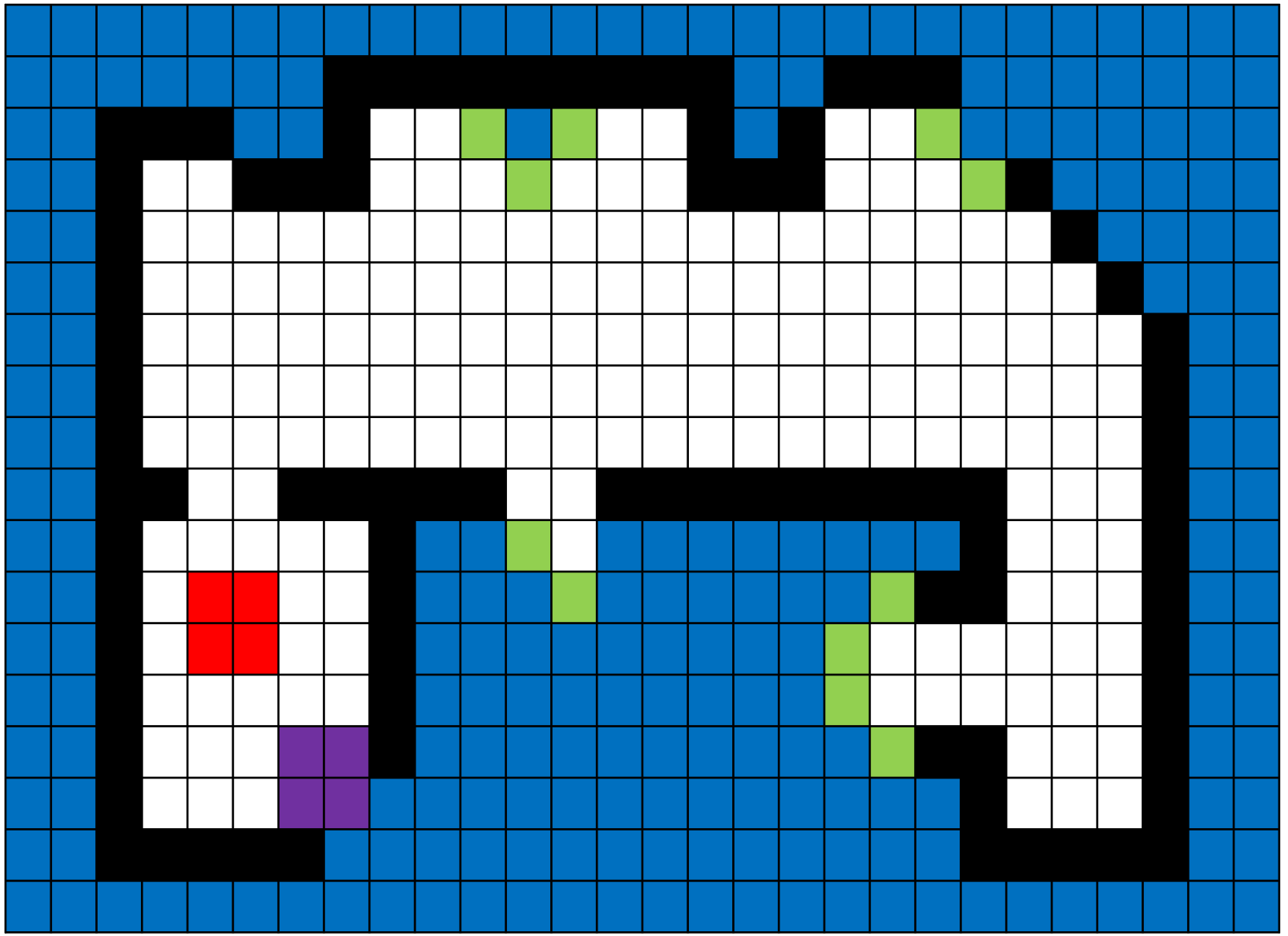

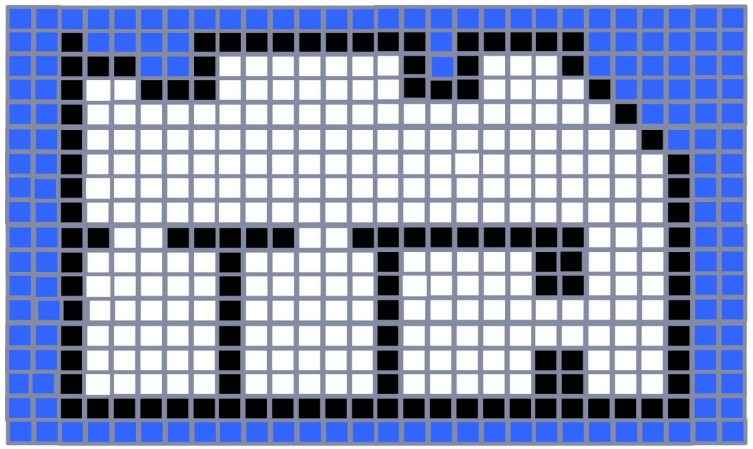

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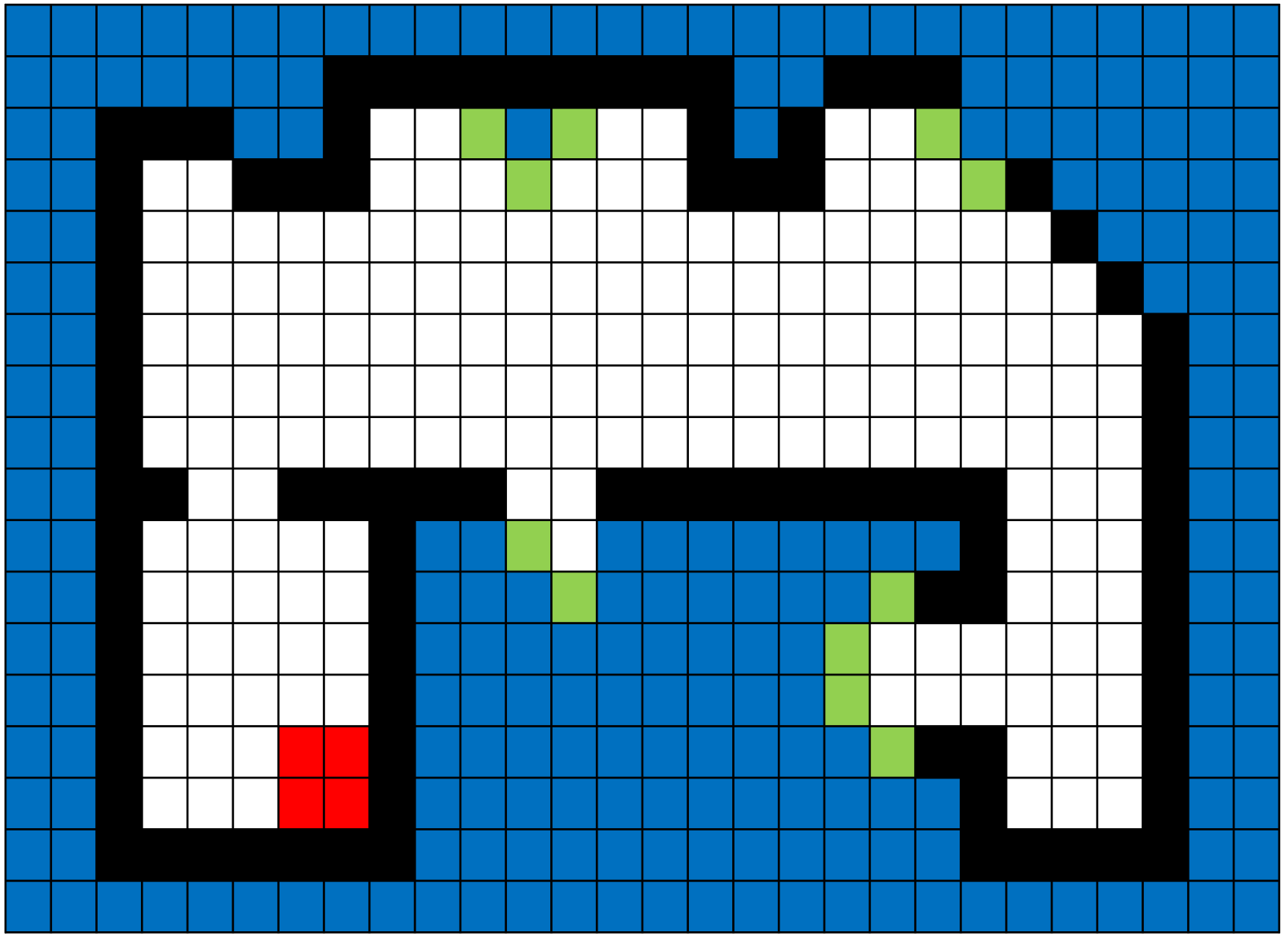

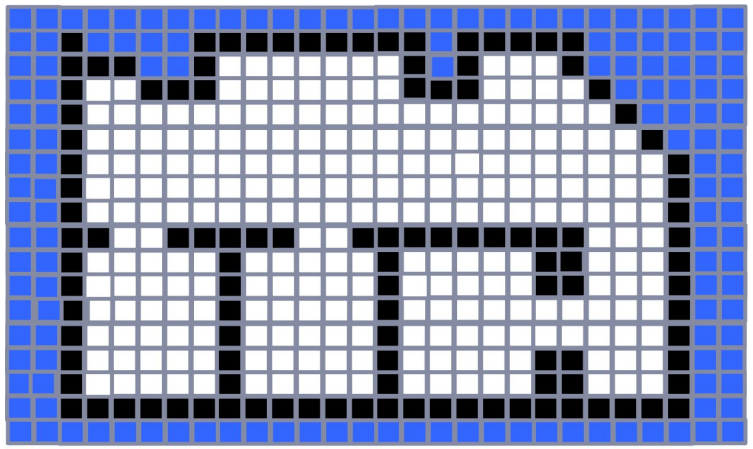

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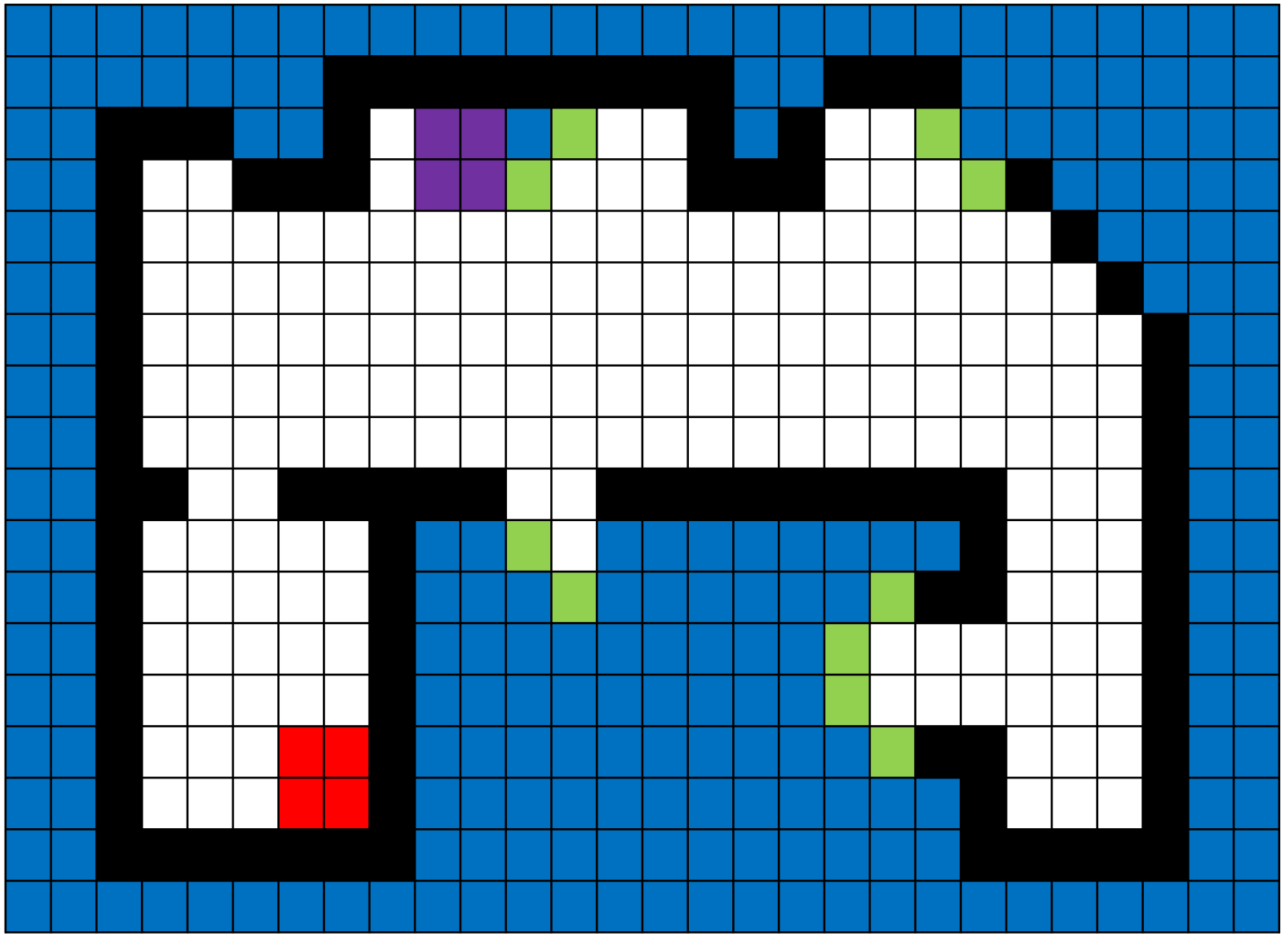

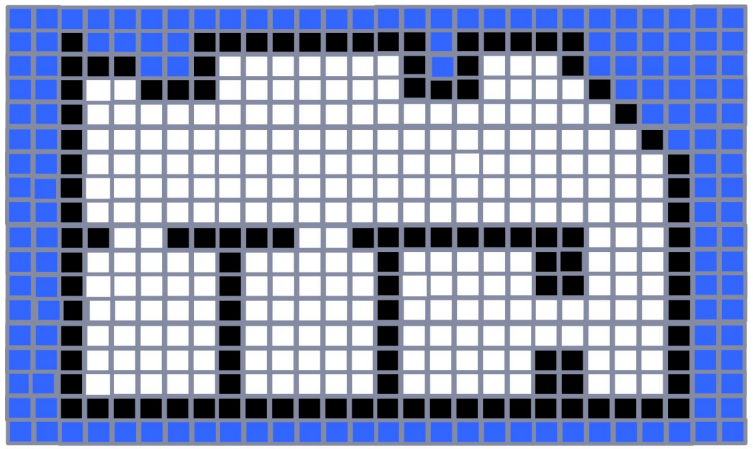

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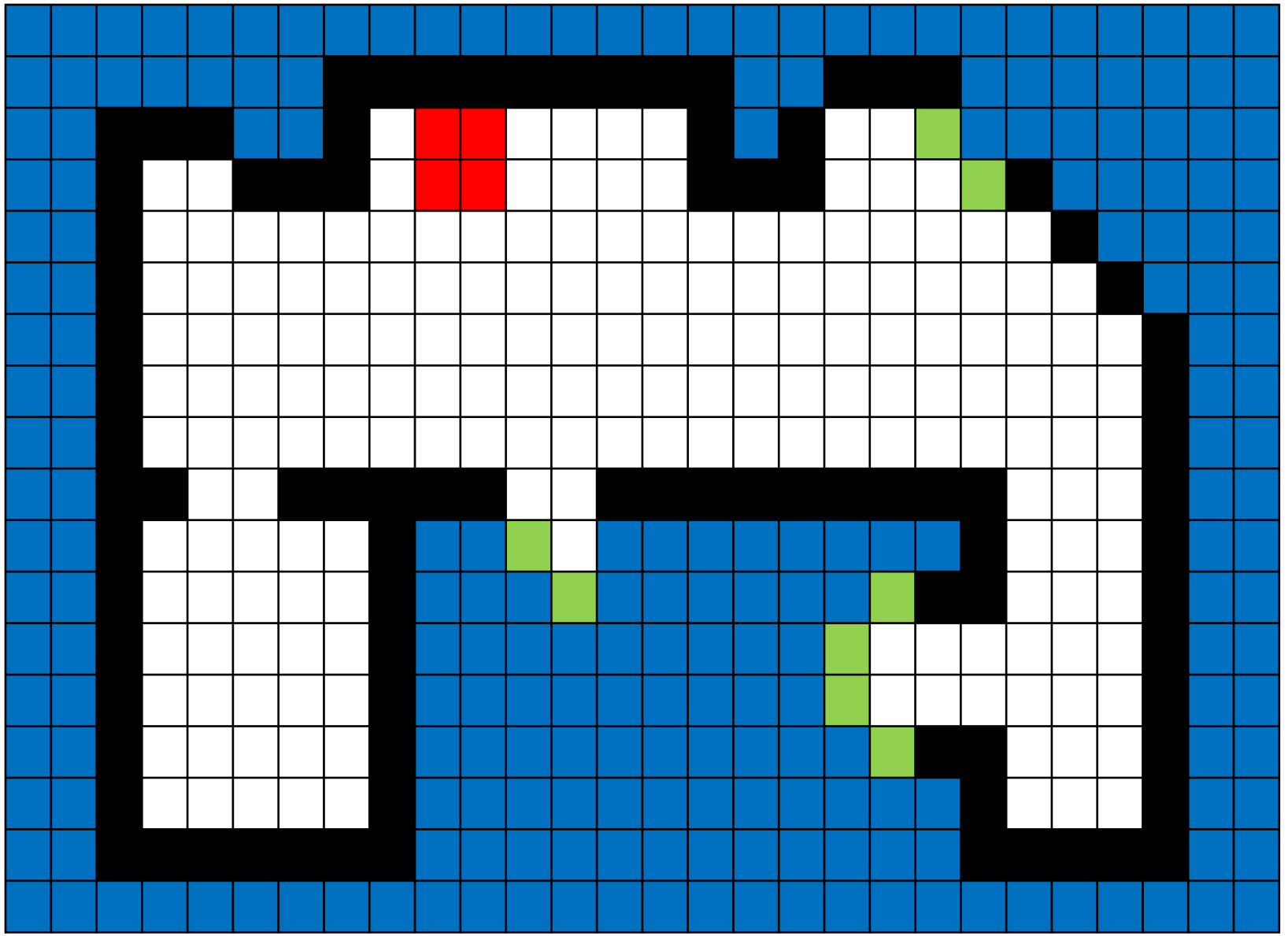

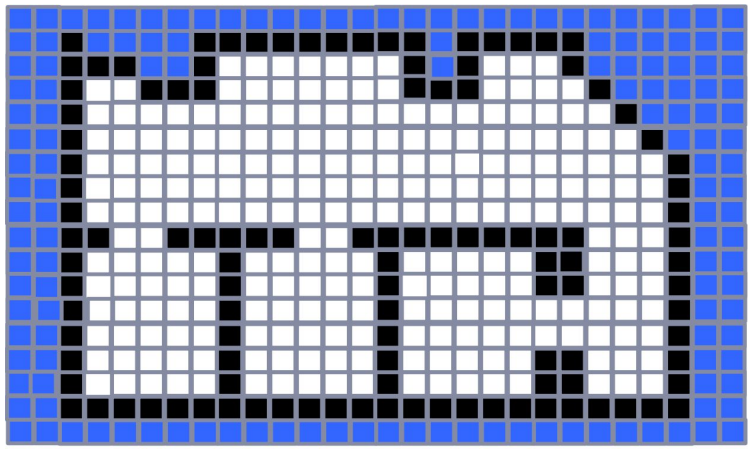

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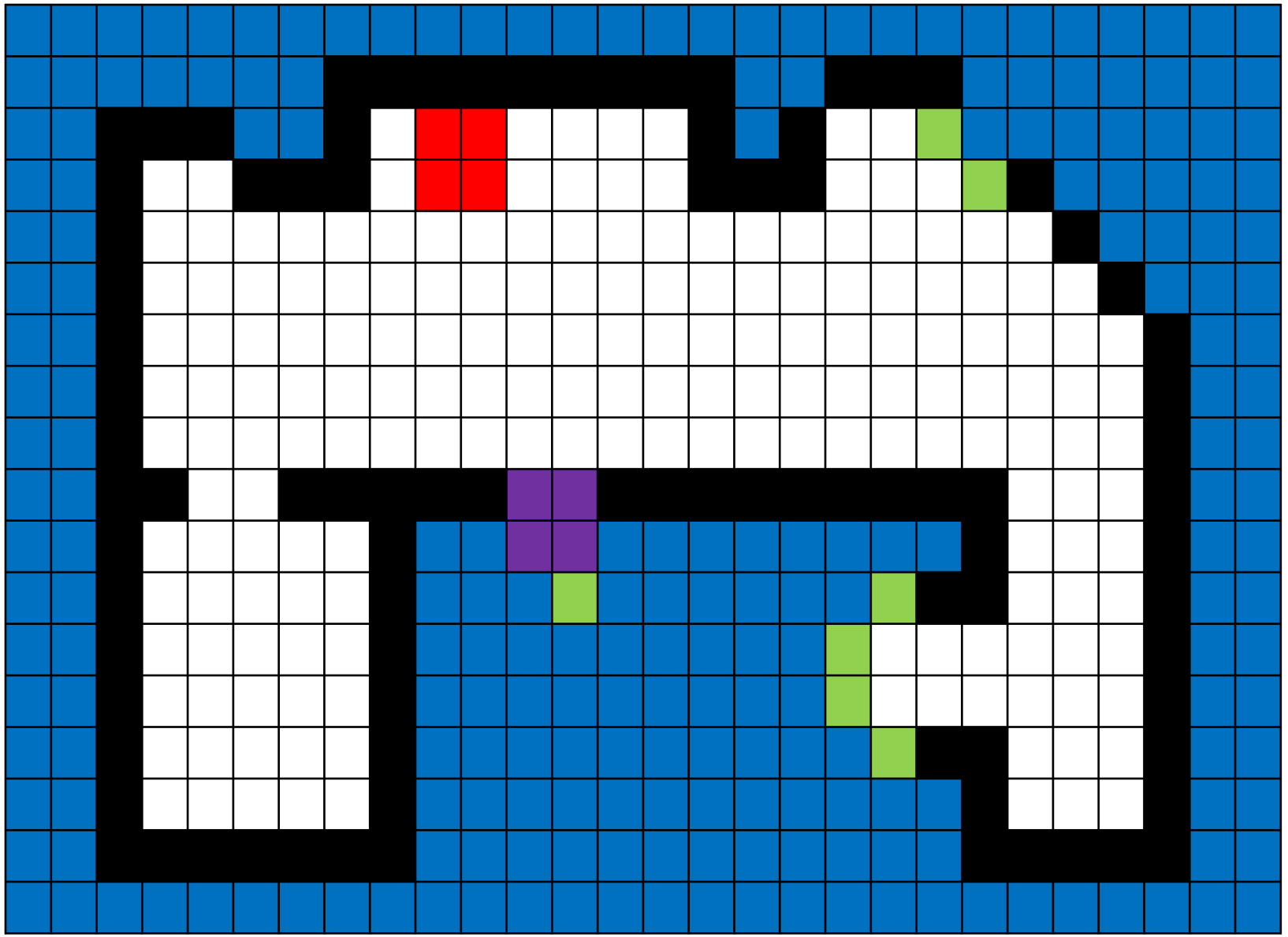

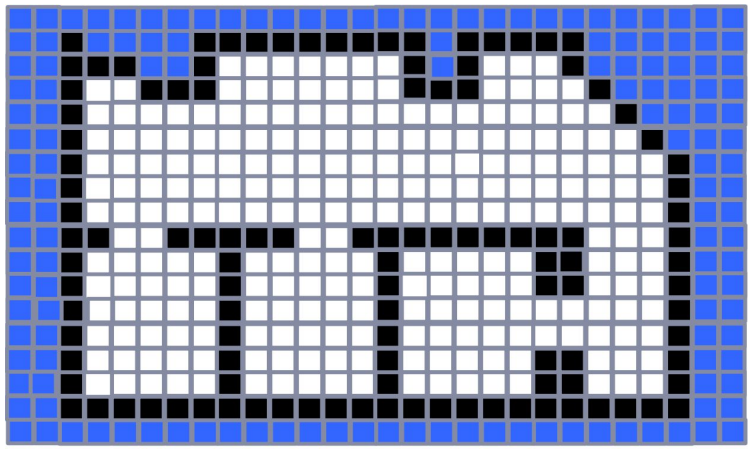

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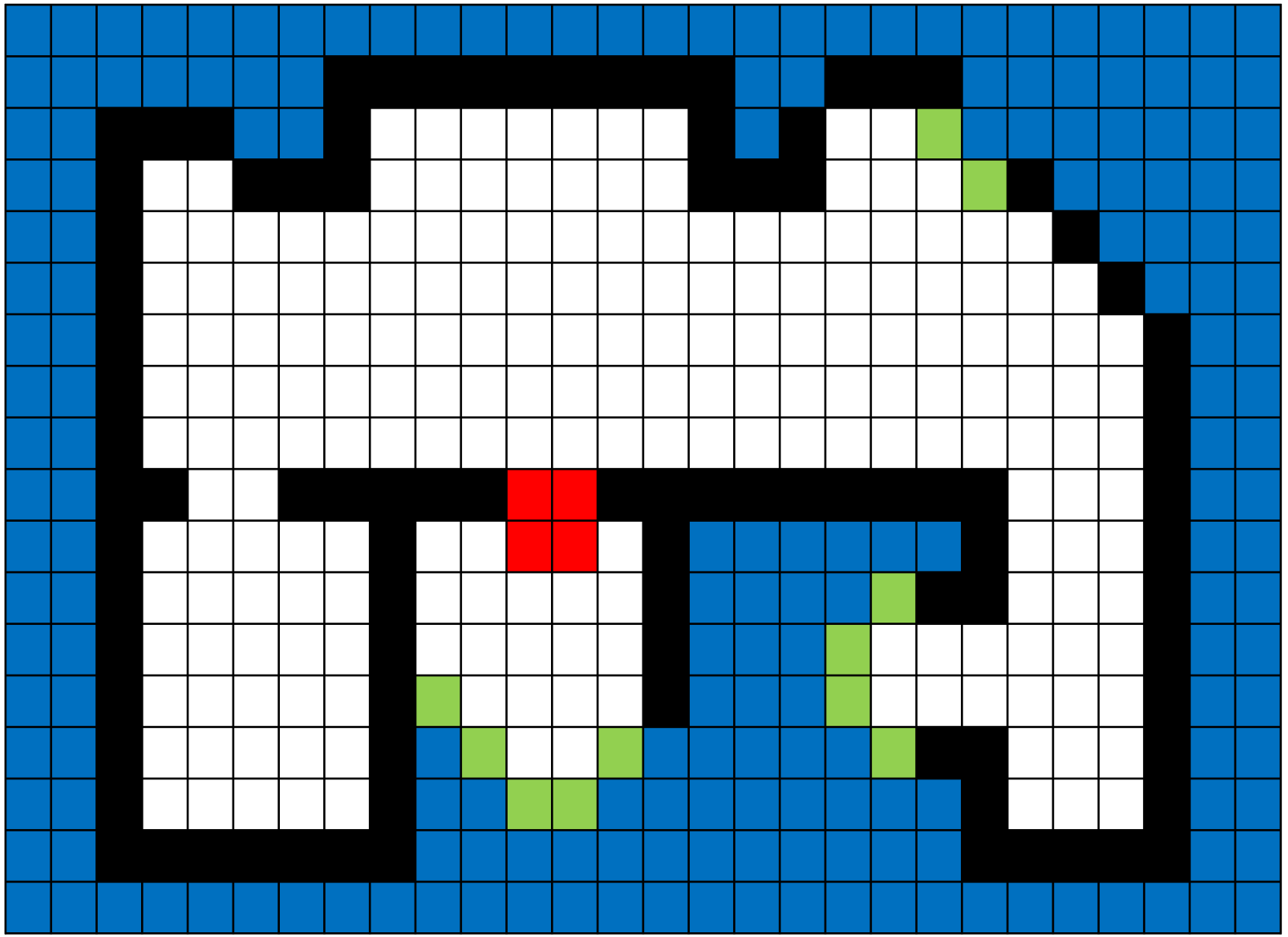

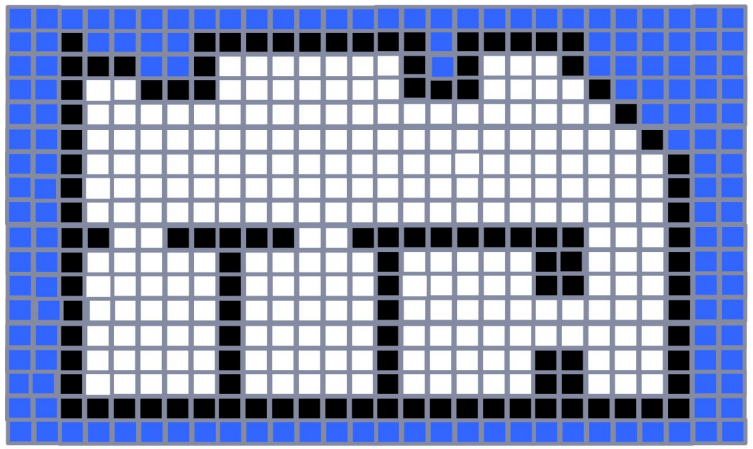

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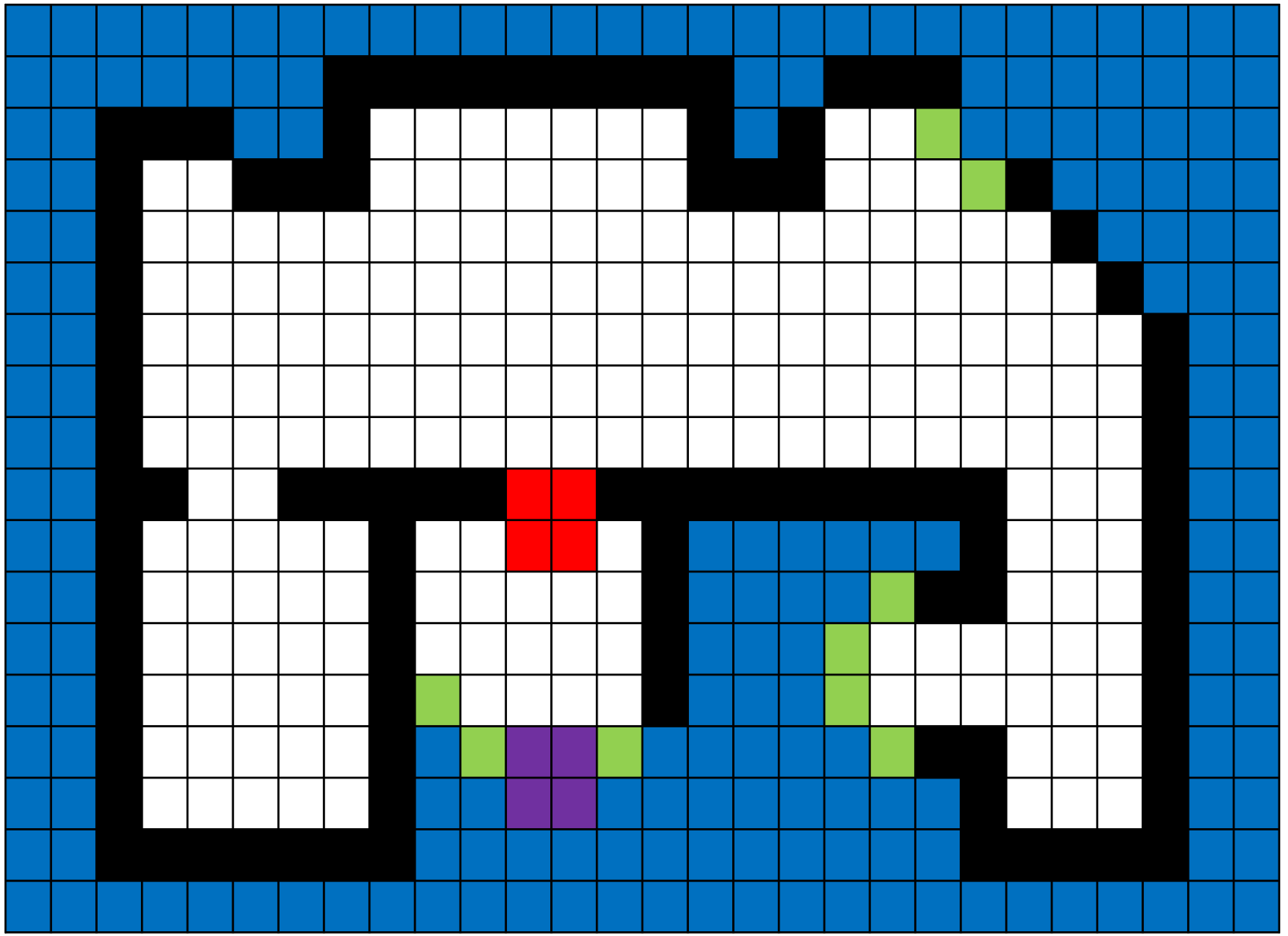

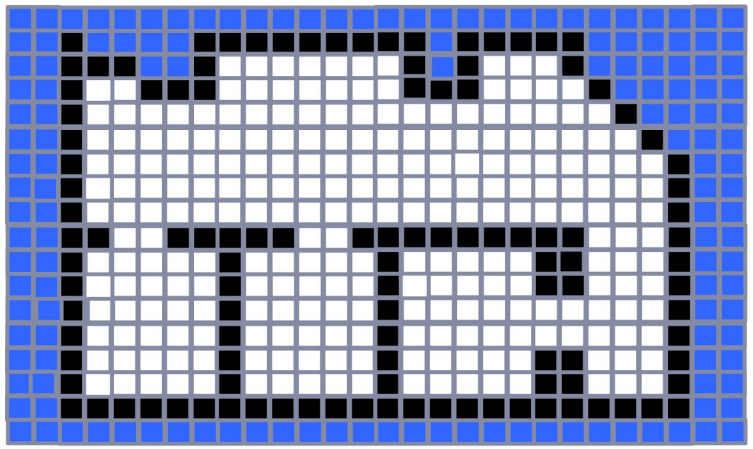

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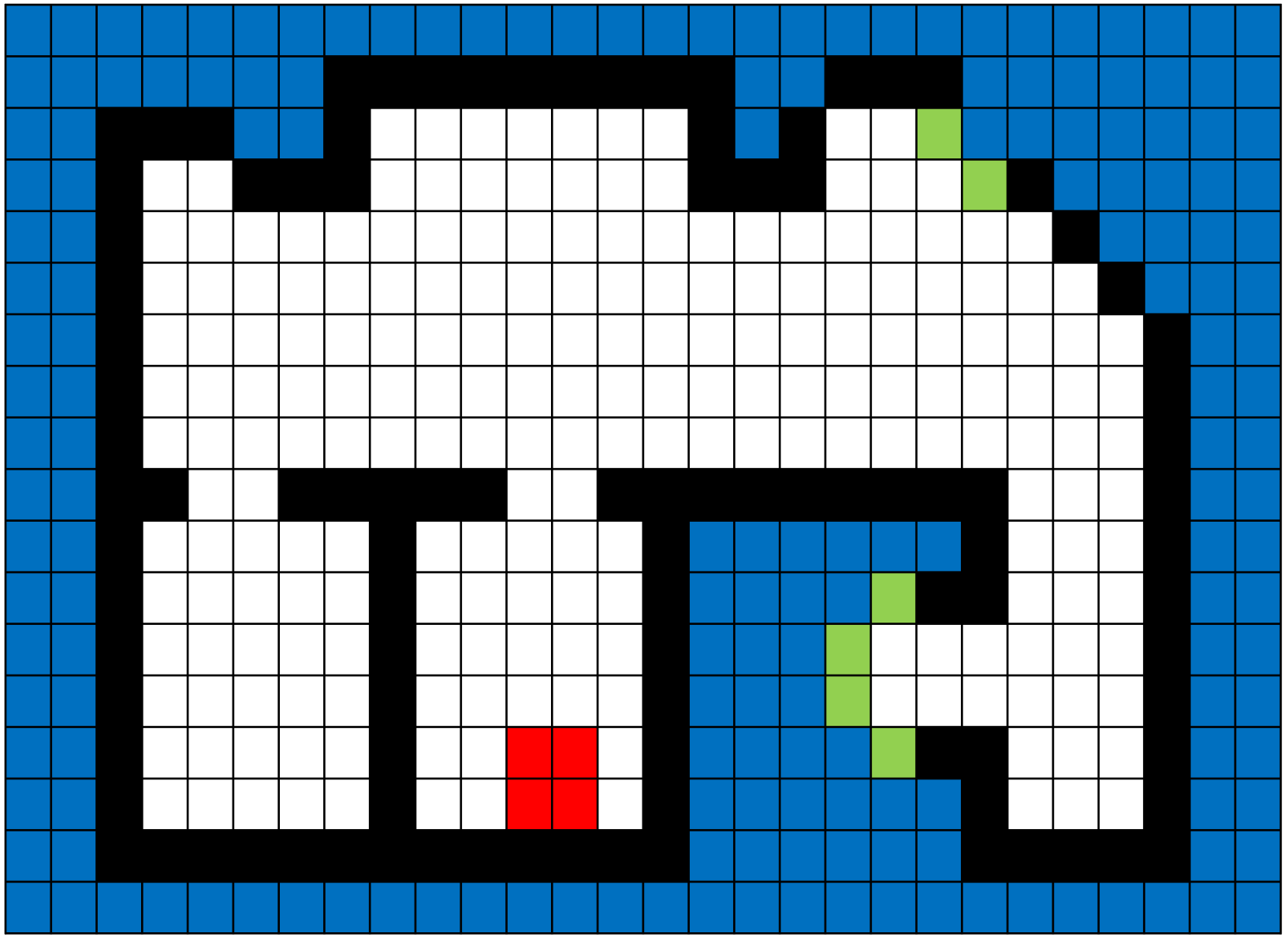

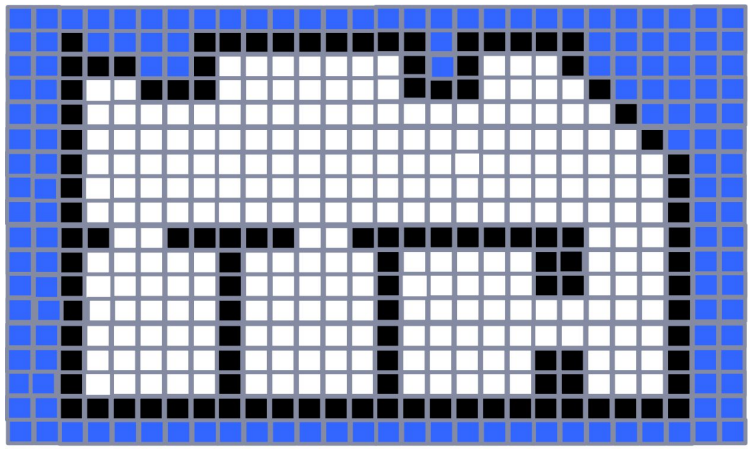

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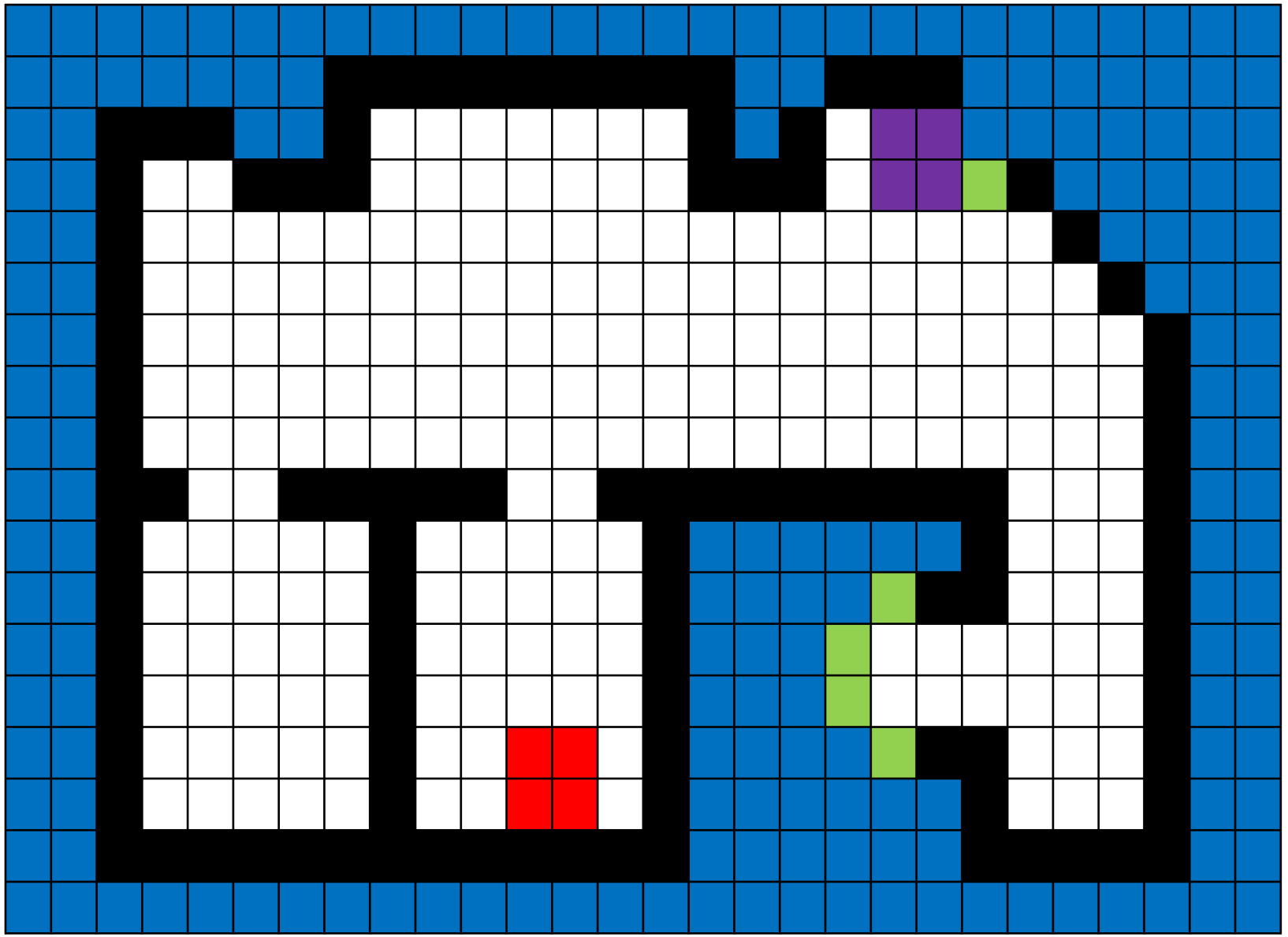

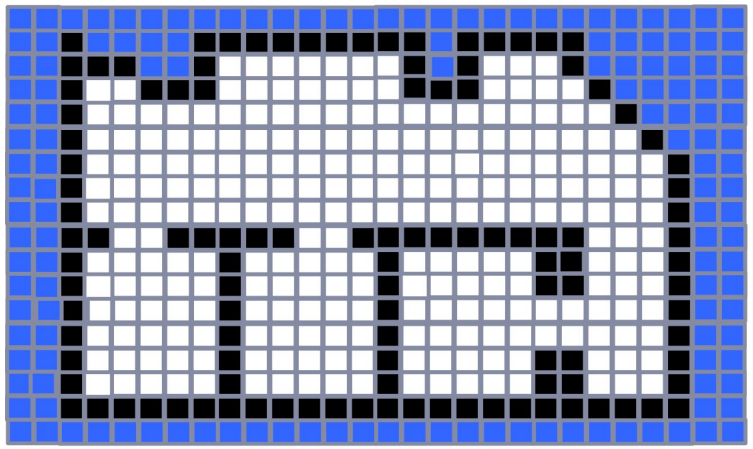

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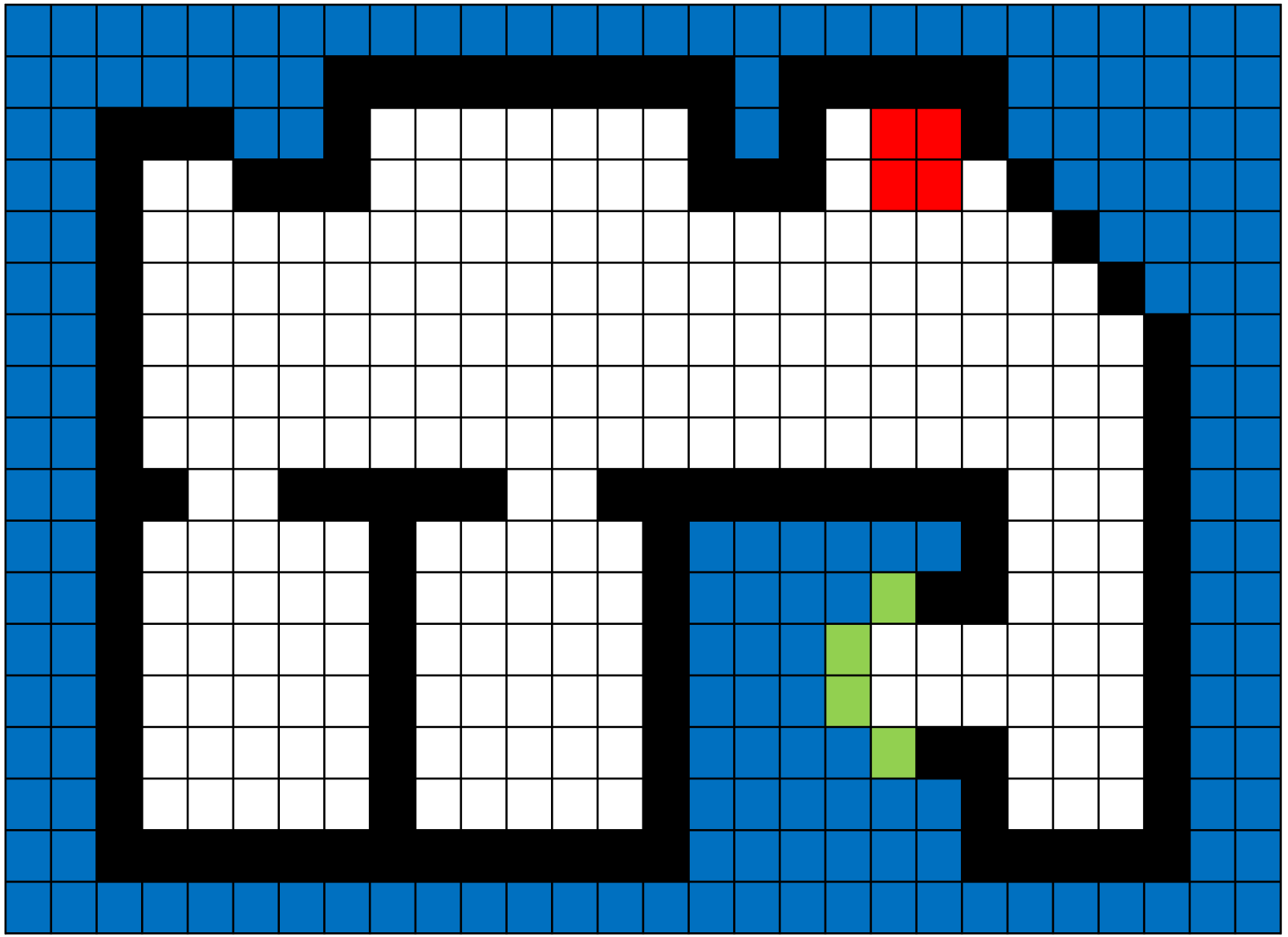

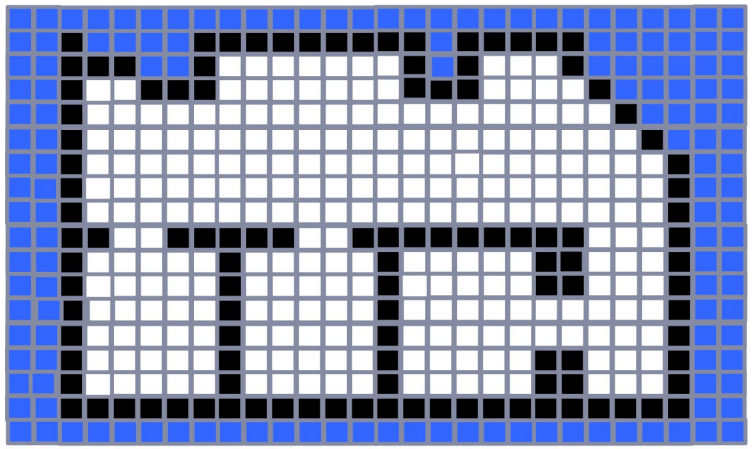

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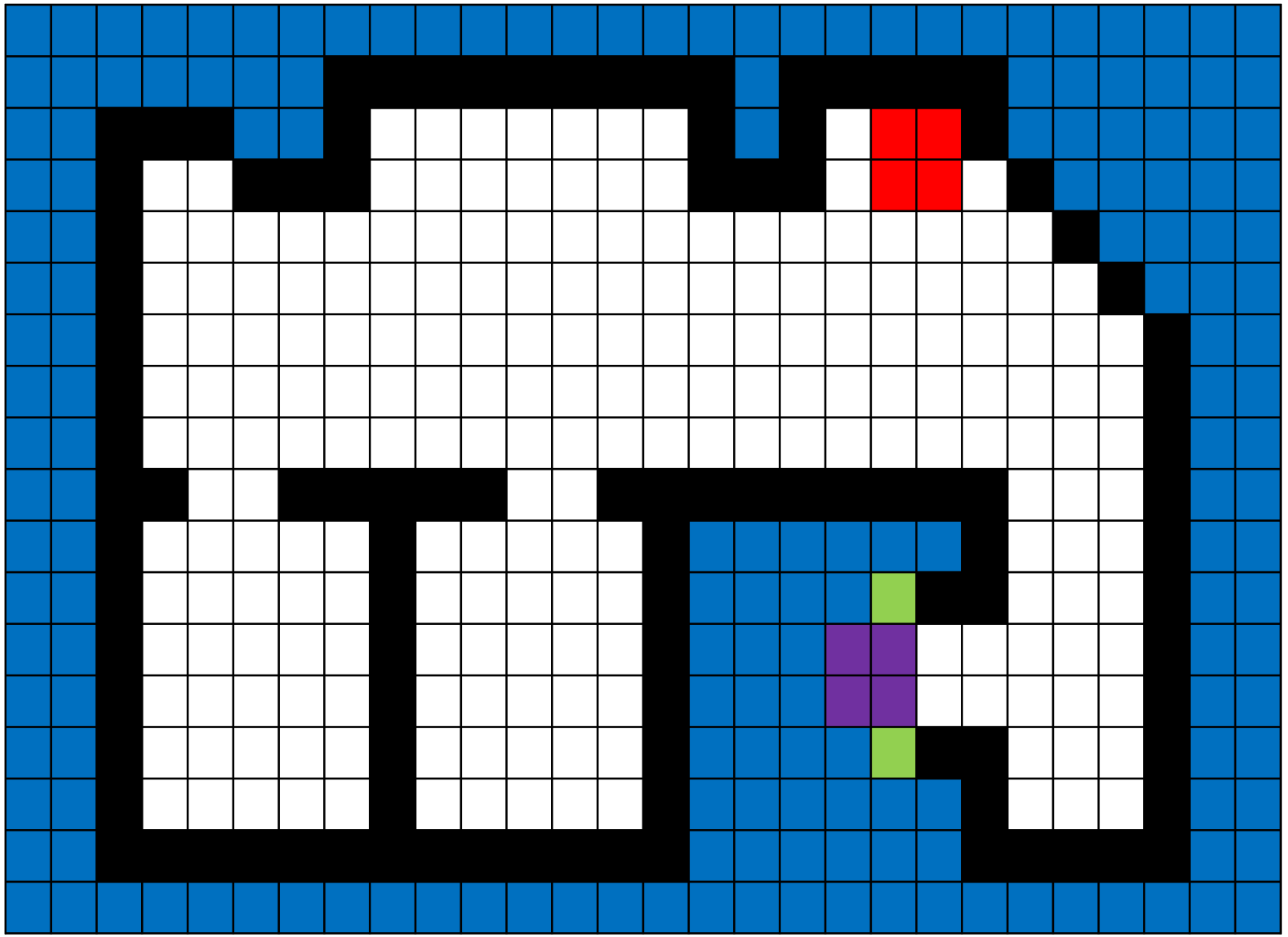

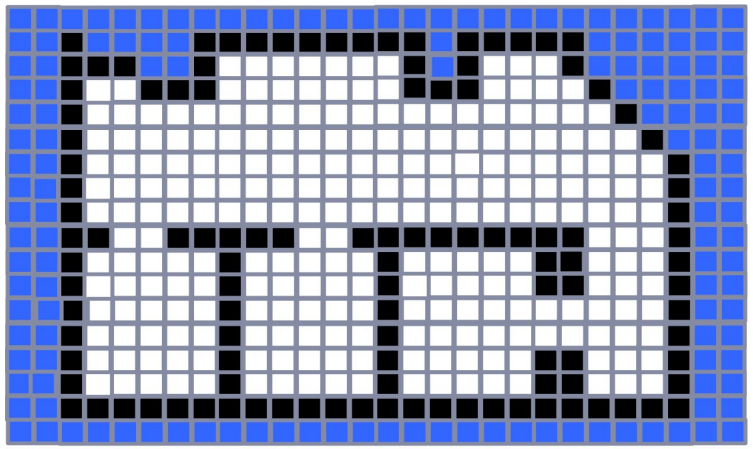

Grid generated by a Robot => boundary shape

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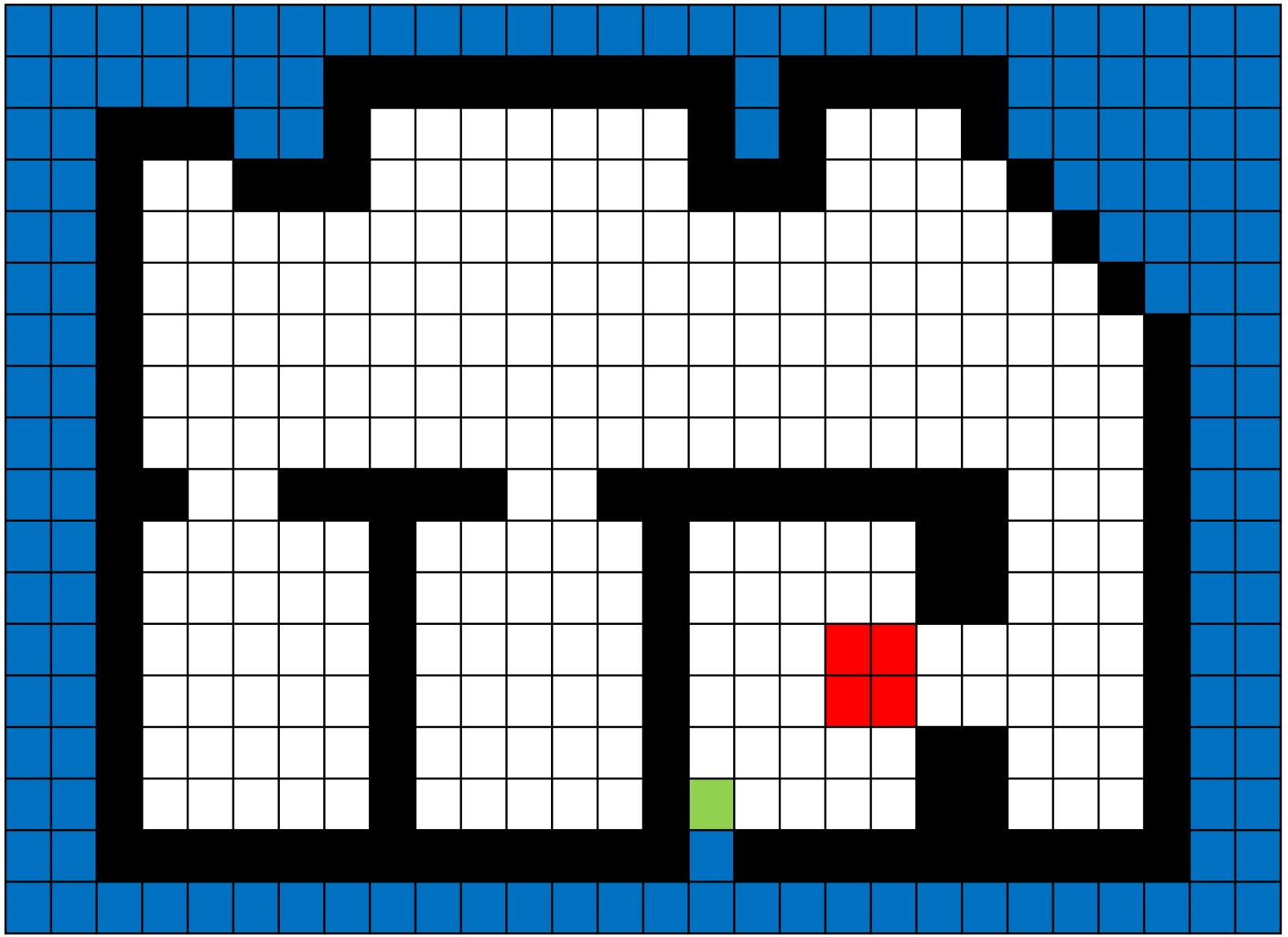

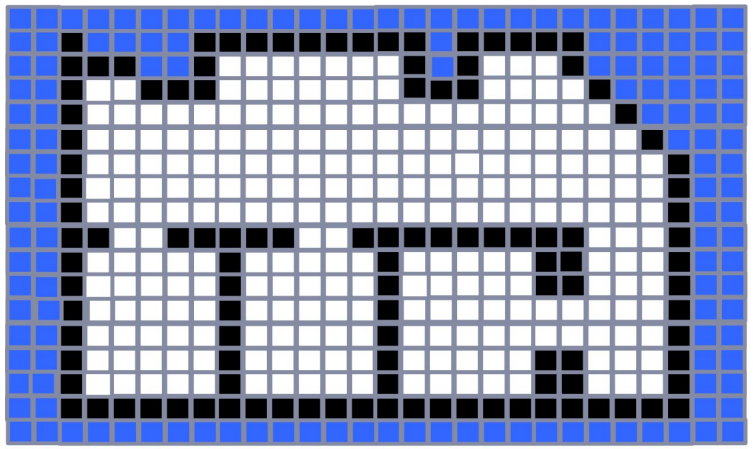

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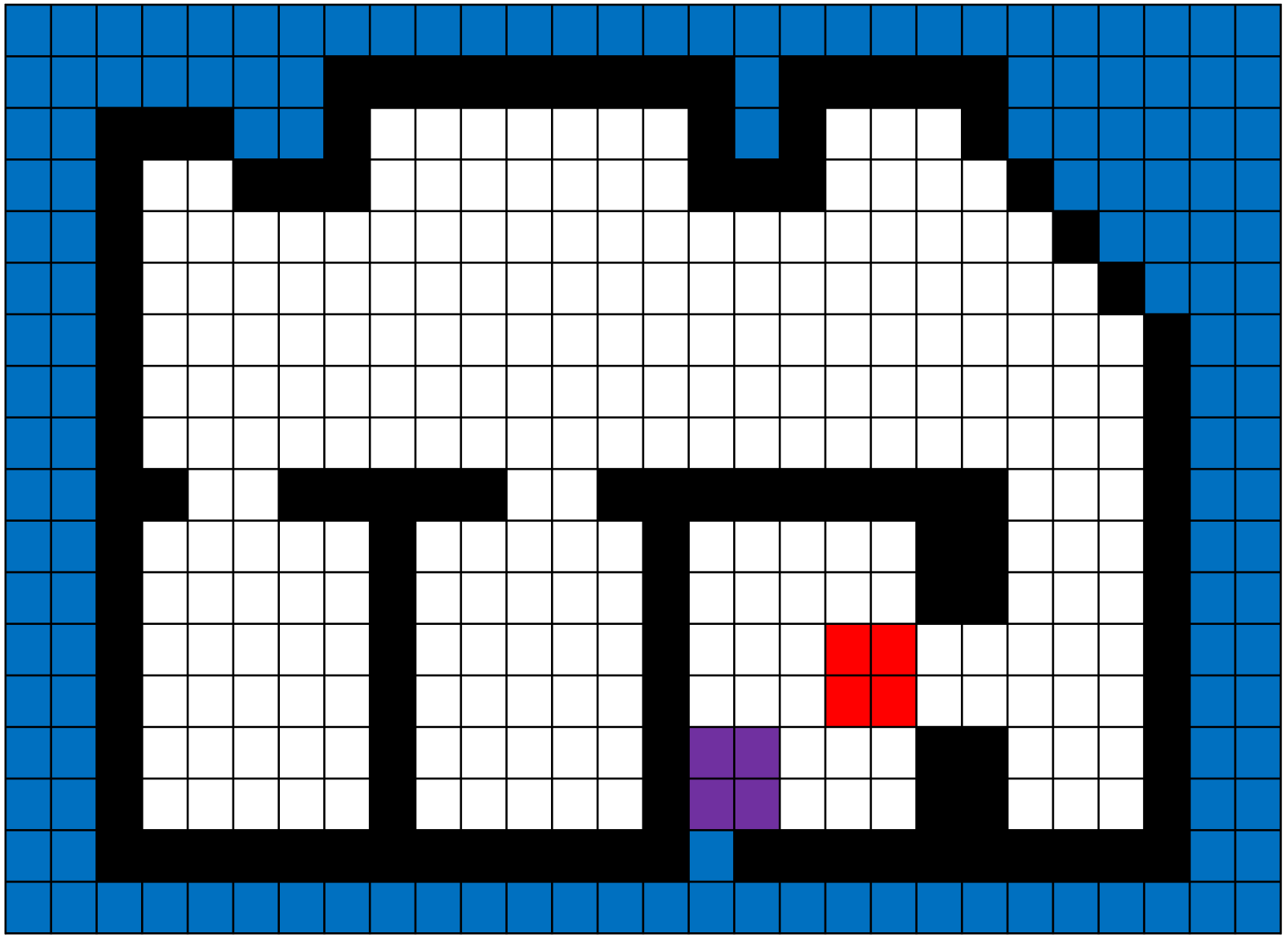

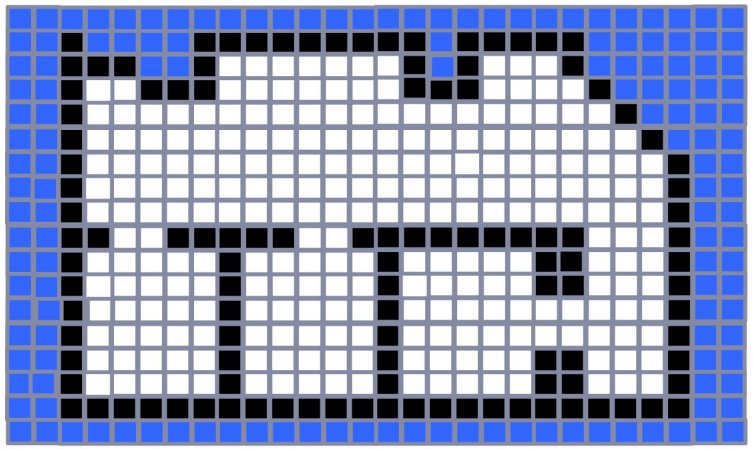

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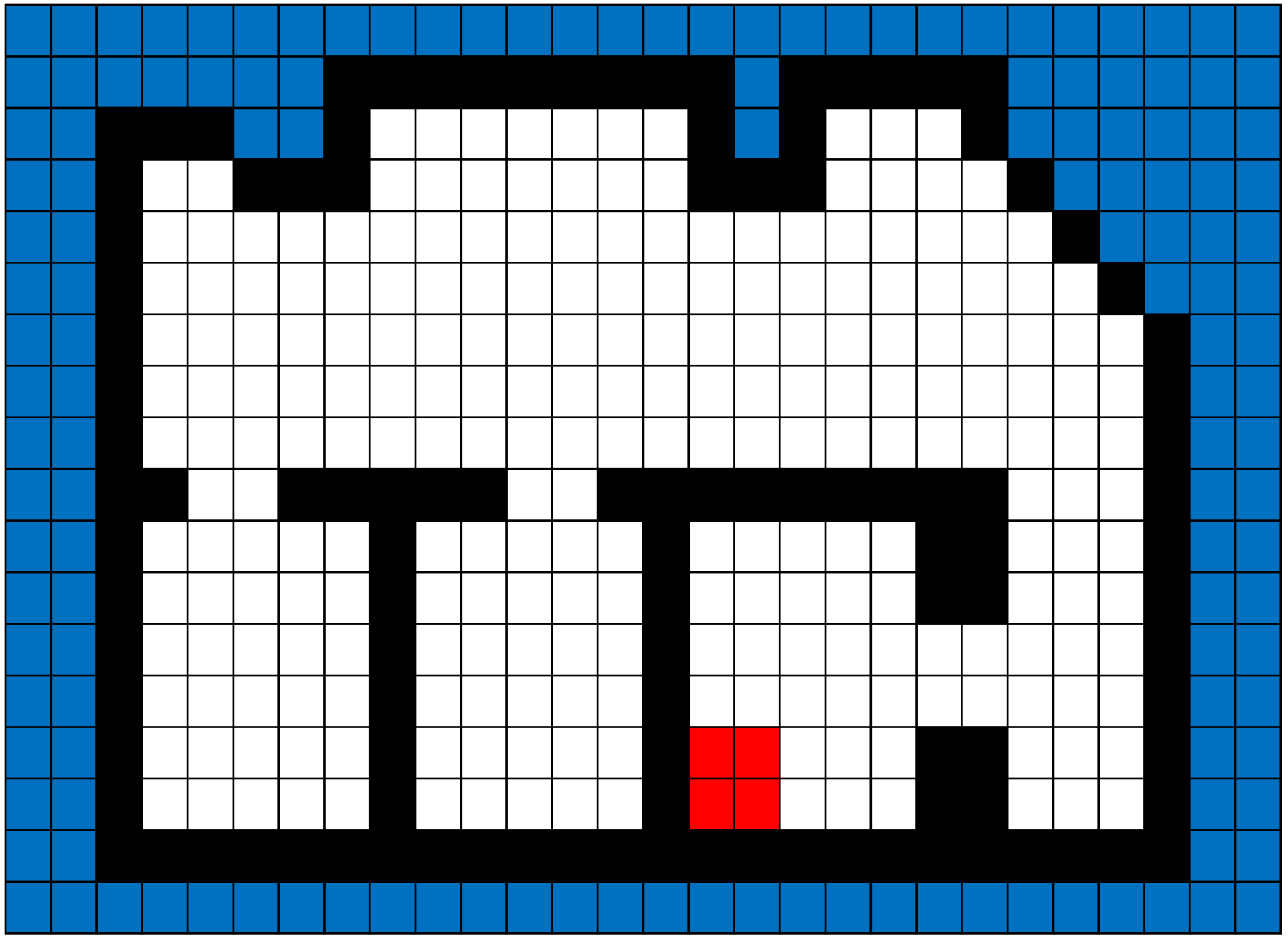

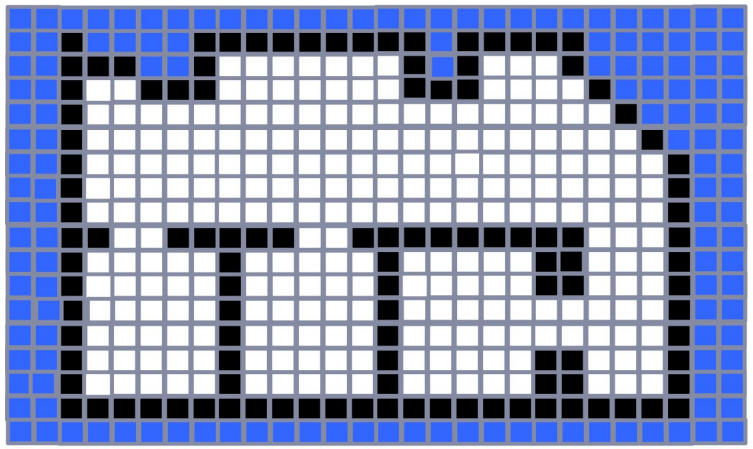

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