MultiTron Project

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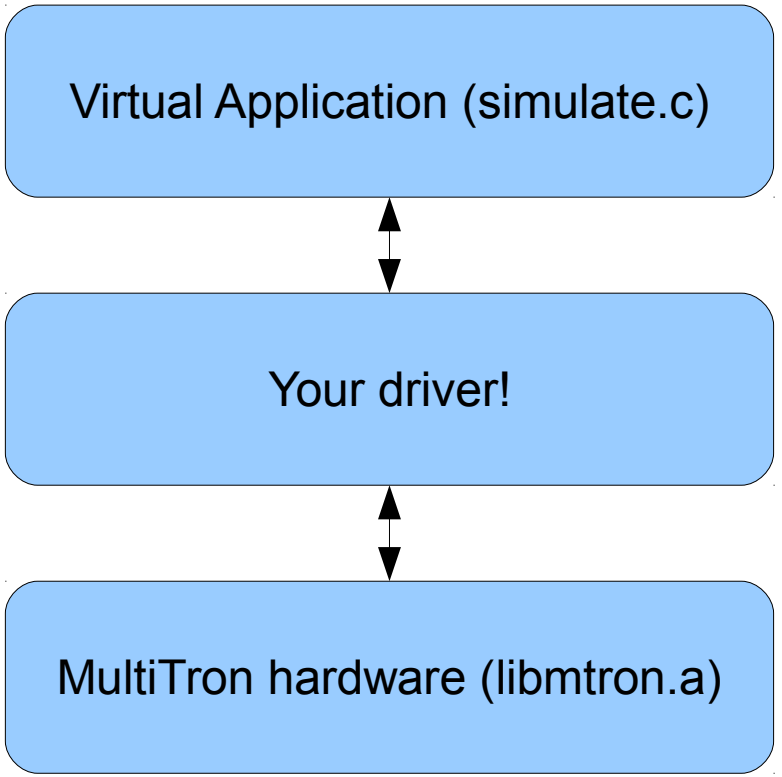
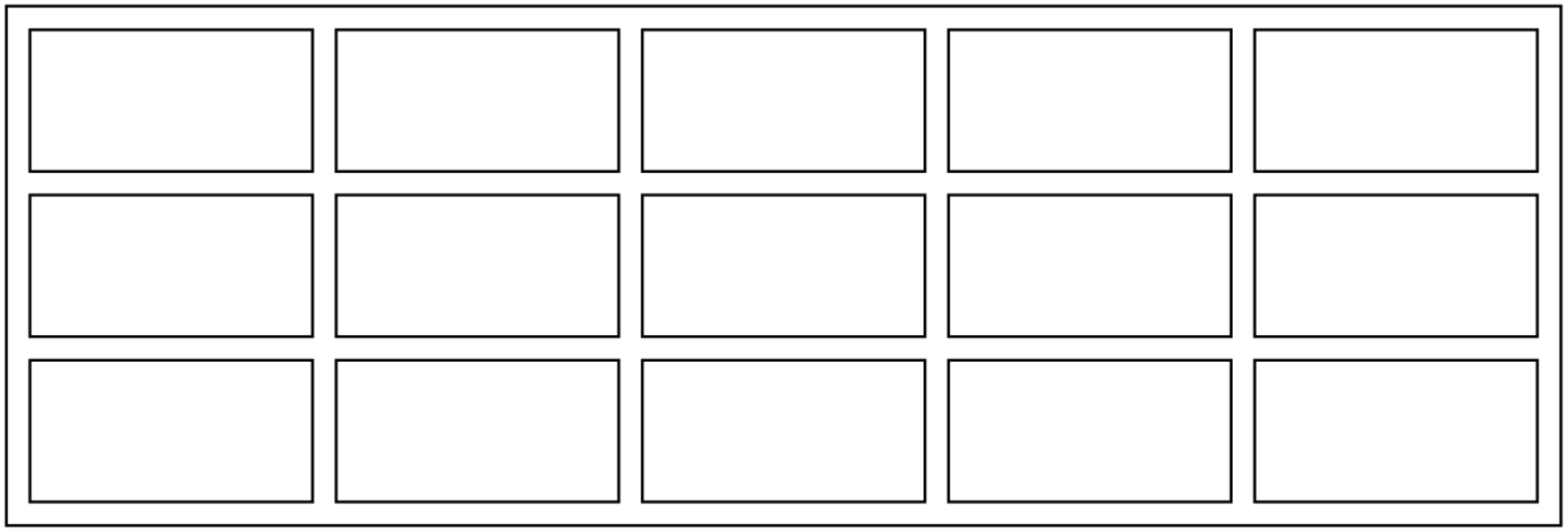
Writing a device driver

- You are going to write a userspace device driver!



The MultiTron

- One large screen made up of small 256x128 displays
- Each display has an ID, assigned left to right and top to bottom



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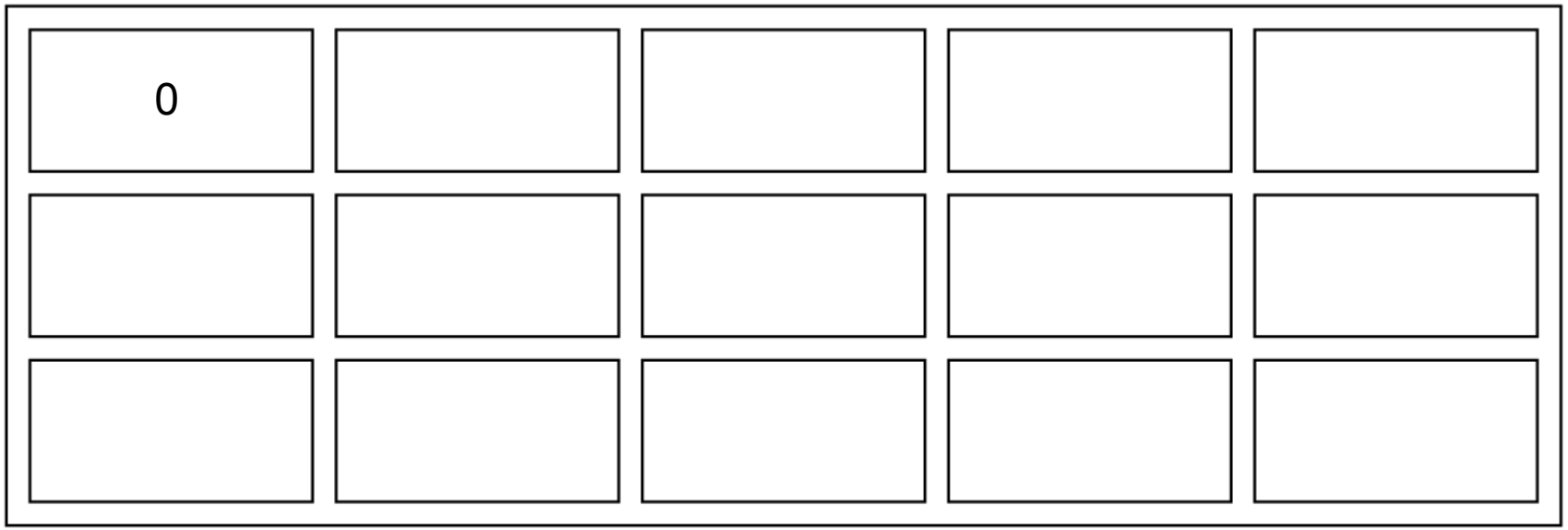

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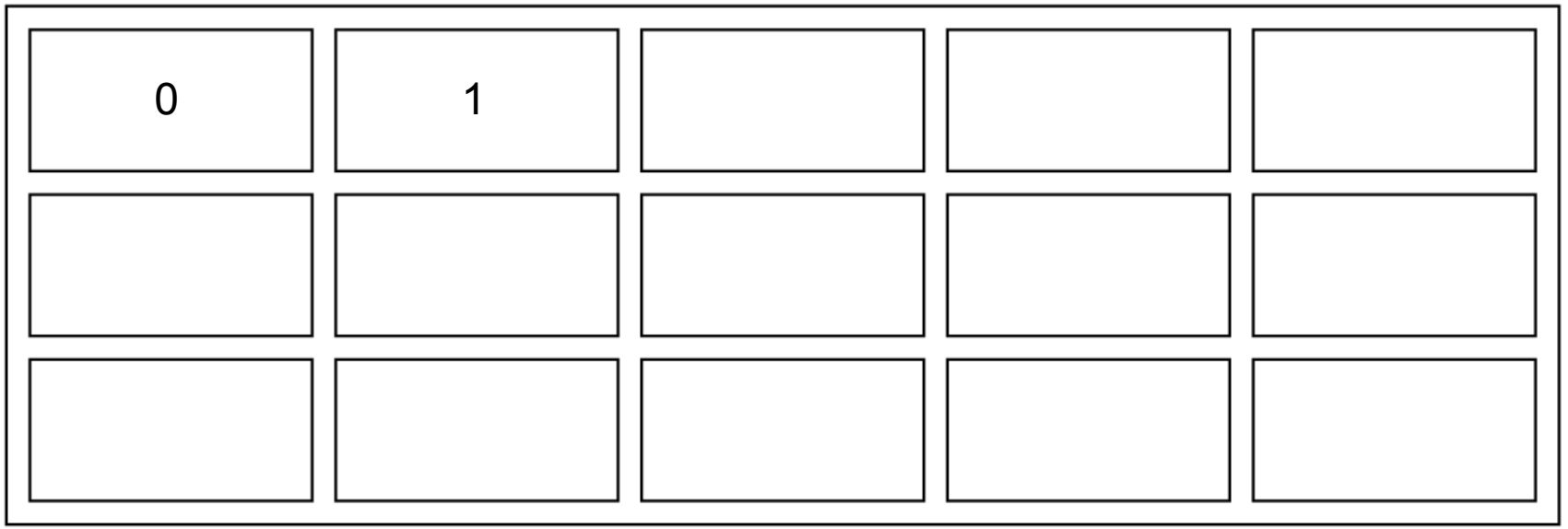

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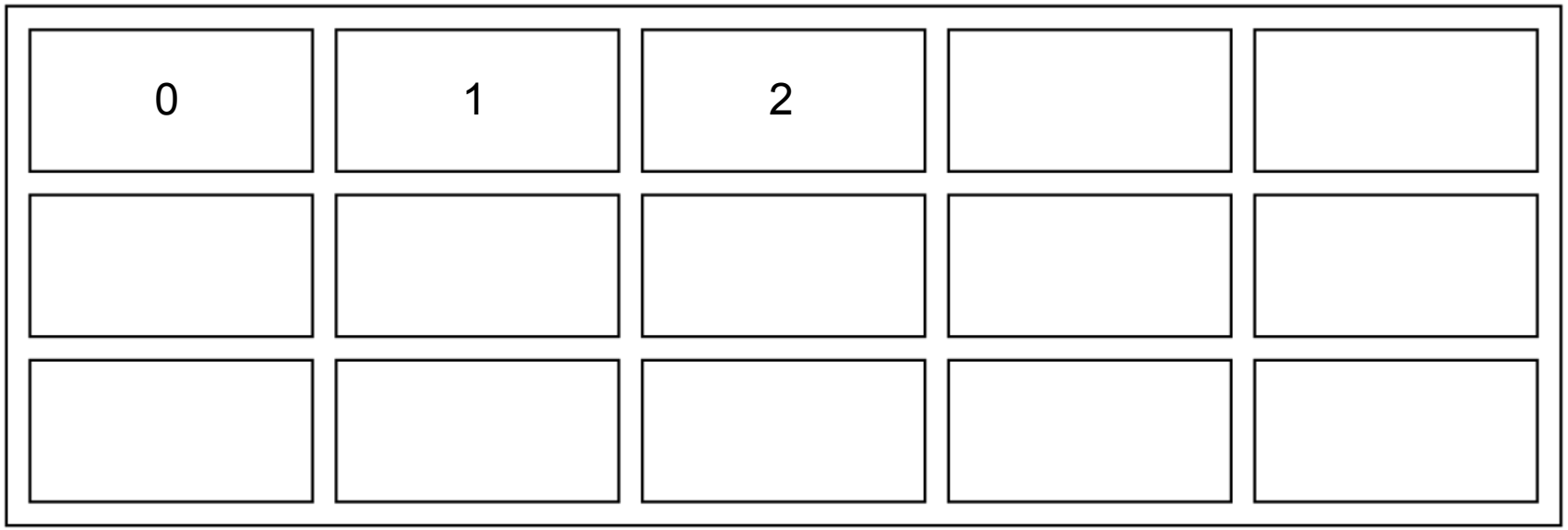

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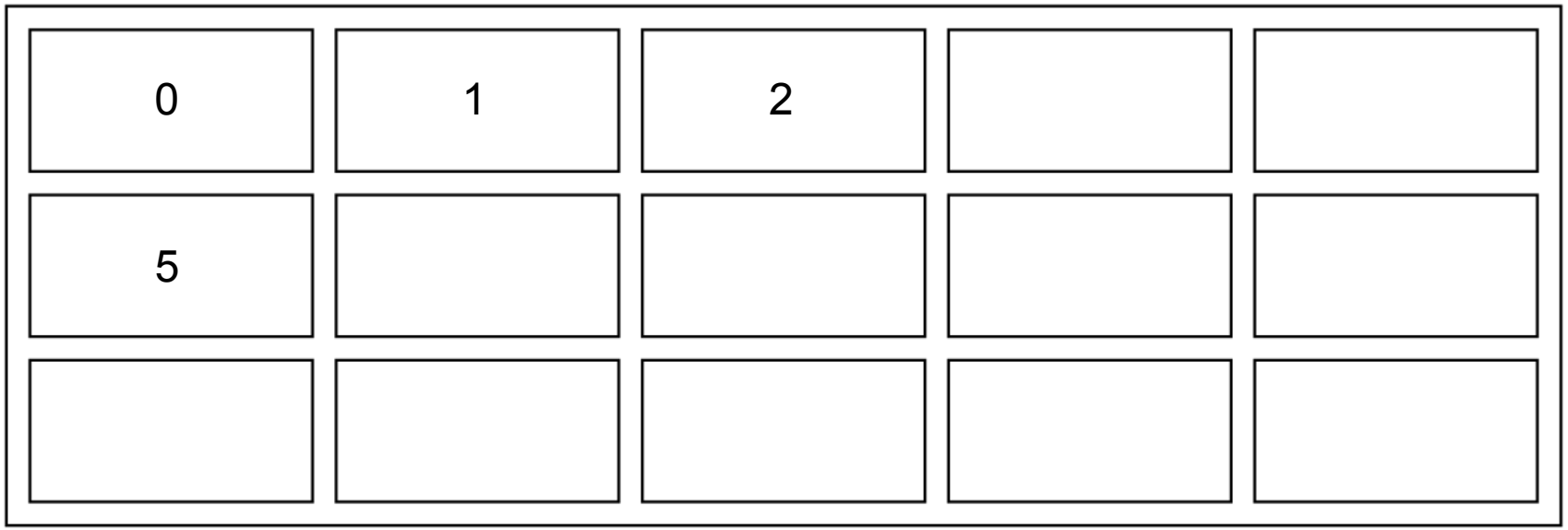
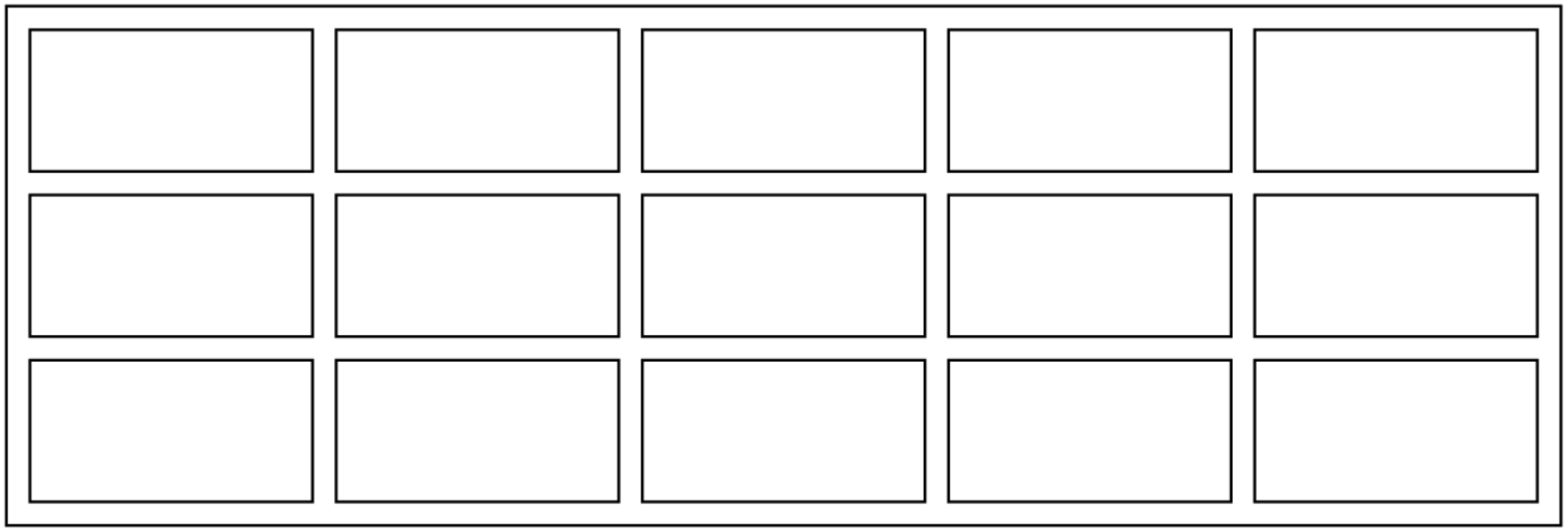


The MultiTron

- One large screen made up of small 256x128 displays
- Virtual coordinates go from the top-left corner of the array to the bottom-right corner



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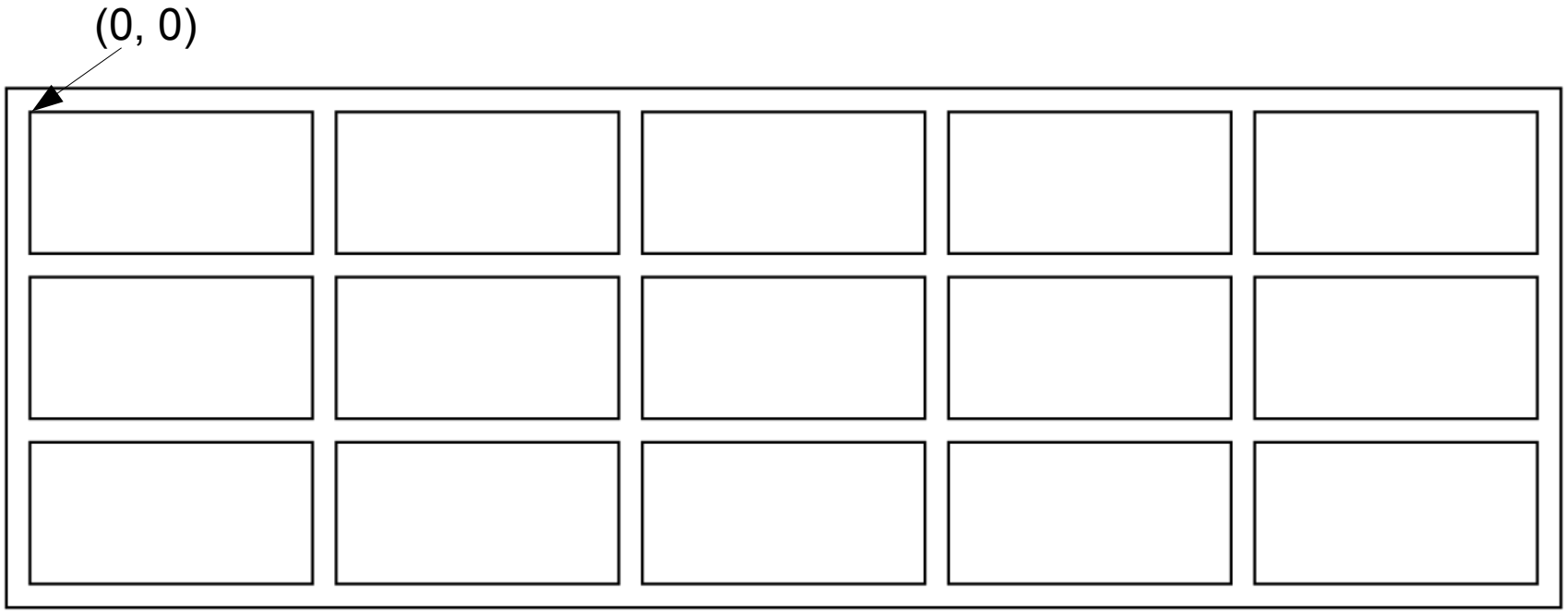

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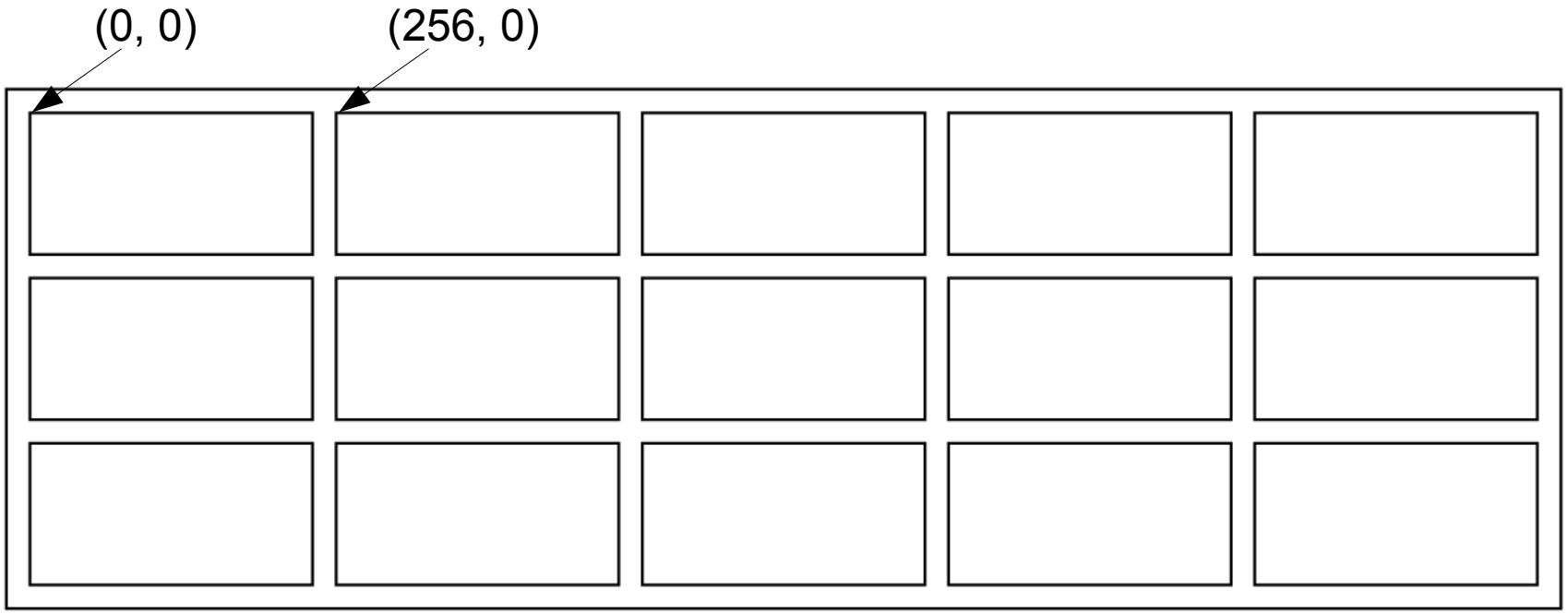

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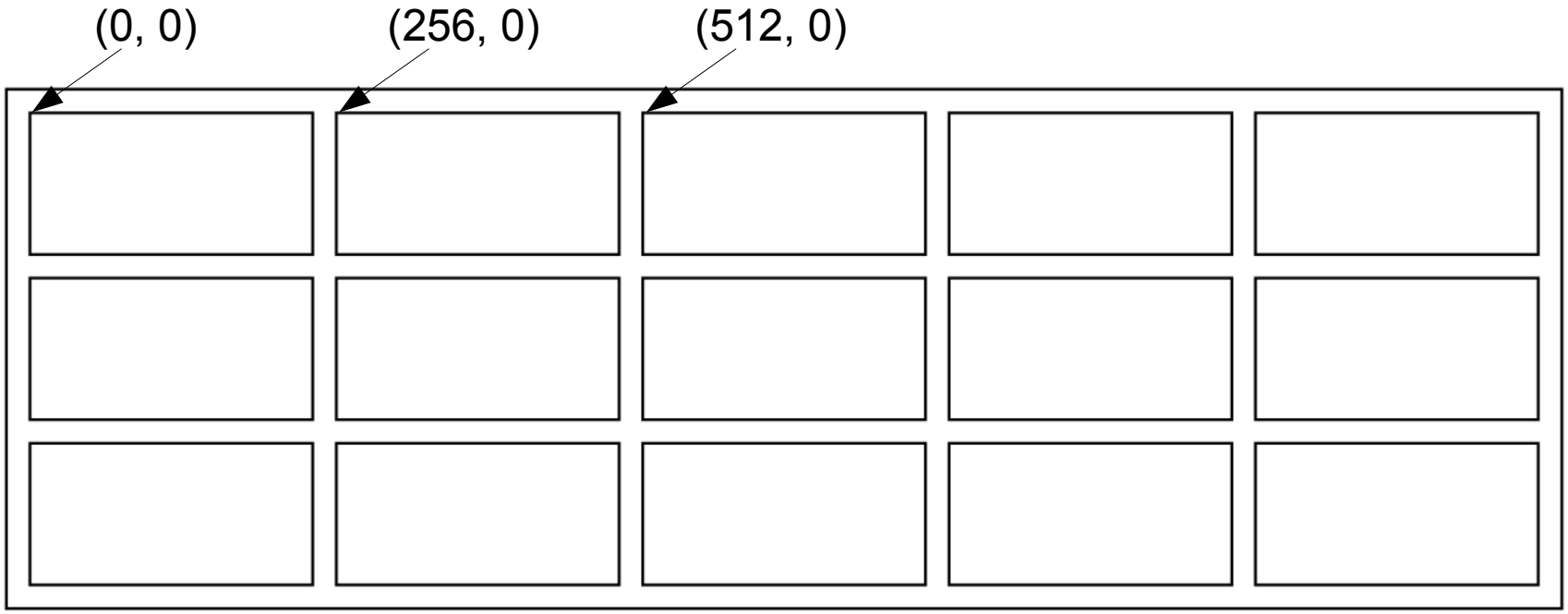

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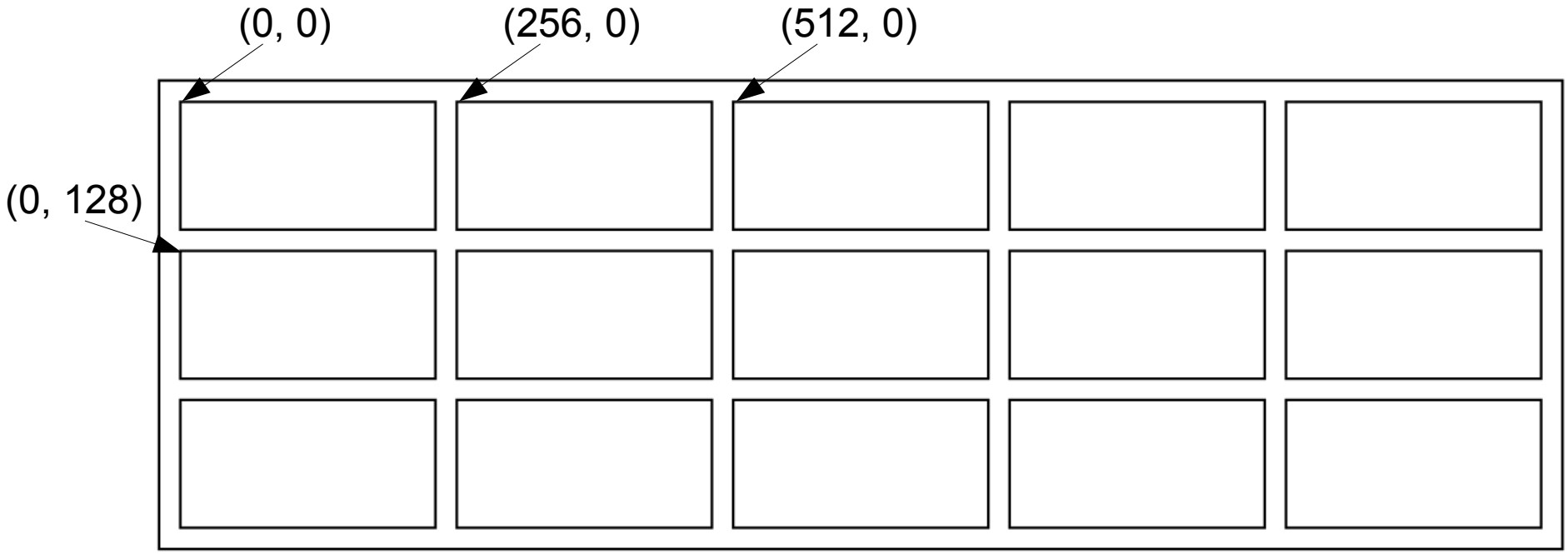

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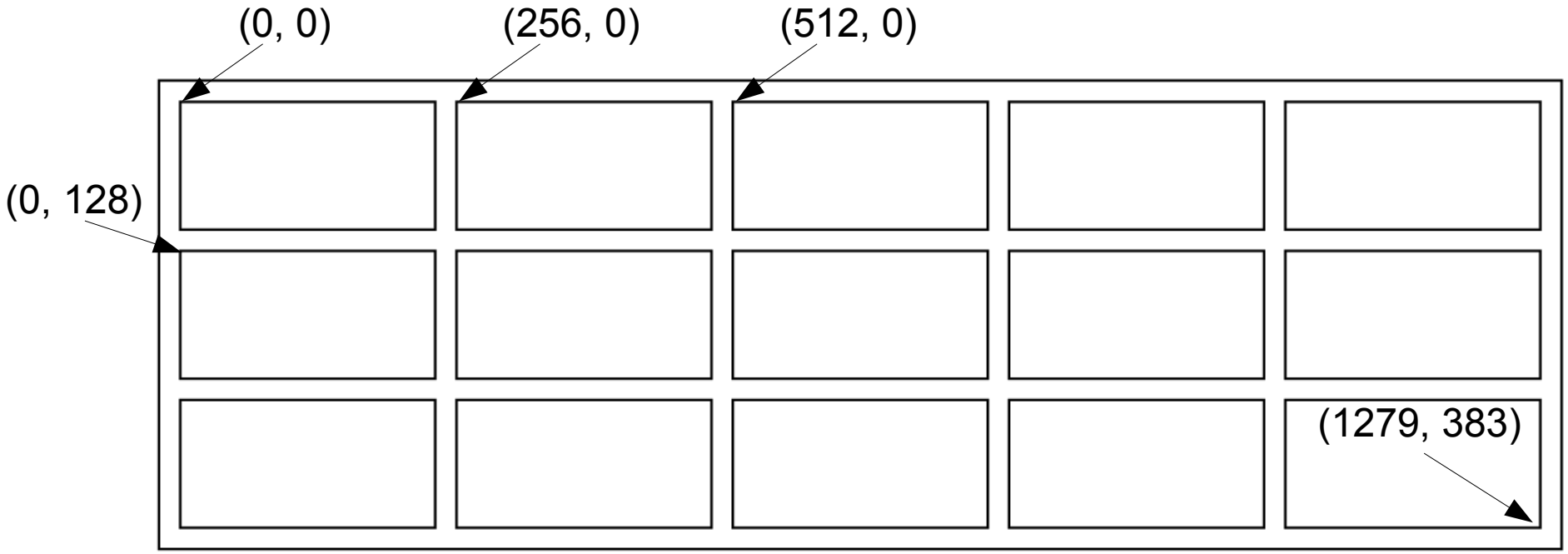

Your driver

- Your driver will provide an API using the virtual coordinates and higher-level ideas like a pixel buffer
- It will translate them to low-level scanline operations on the MultiTron hardware.

Details

- Due 2014-03-17
- Bad email, tarball, missing files are your responsibility
  - Last assignment was practice
- Send to me, the TA, and yourself
- Will be posted tonight
  - I'll let you know via ANGELspam

Late policy update

- Four days made it difficult to give you a timely response and introduced confusion for both me and the TAs.
- Starting with this project, assignments will be accepted **up to two days** late, with 10% penalty per day.
- Sorry for the inconvenience :-\