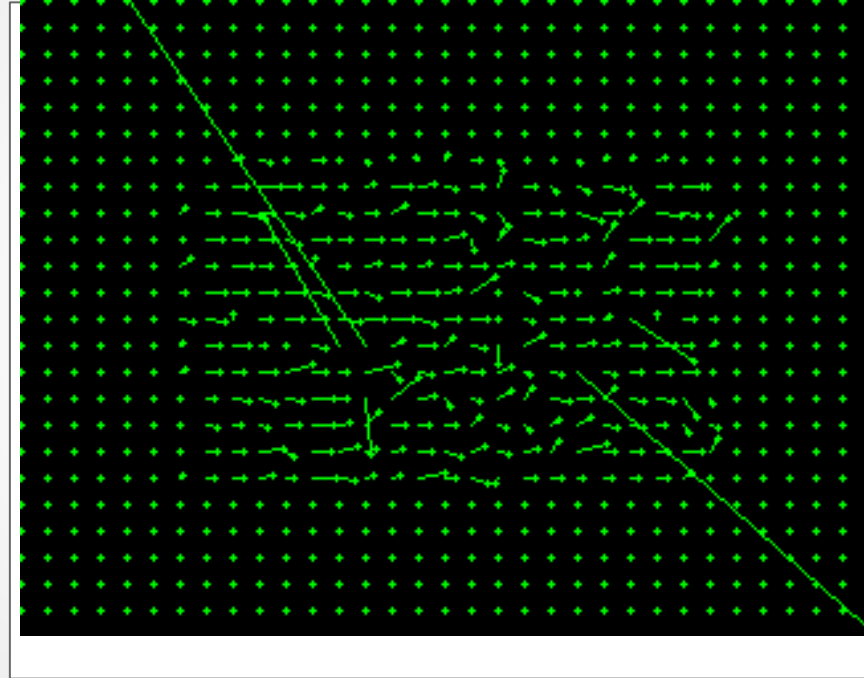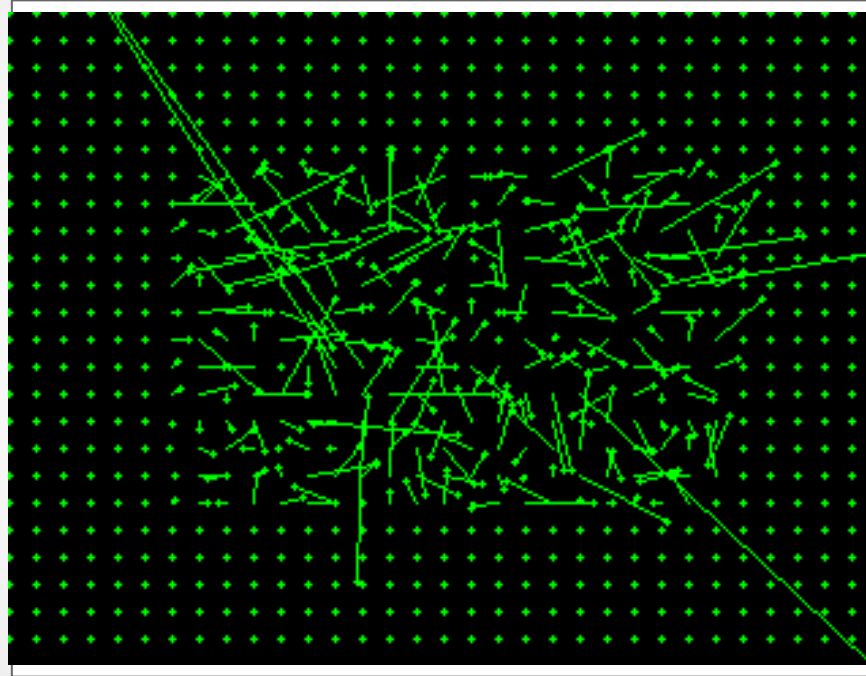# Computer Vision
Spring 2018
Problem Set #4

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1a: Base Shift0 and ShiftR2
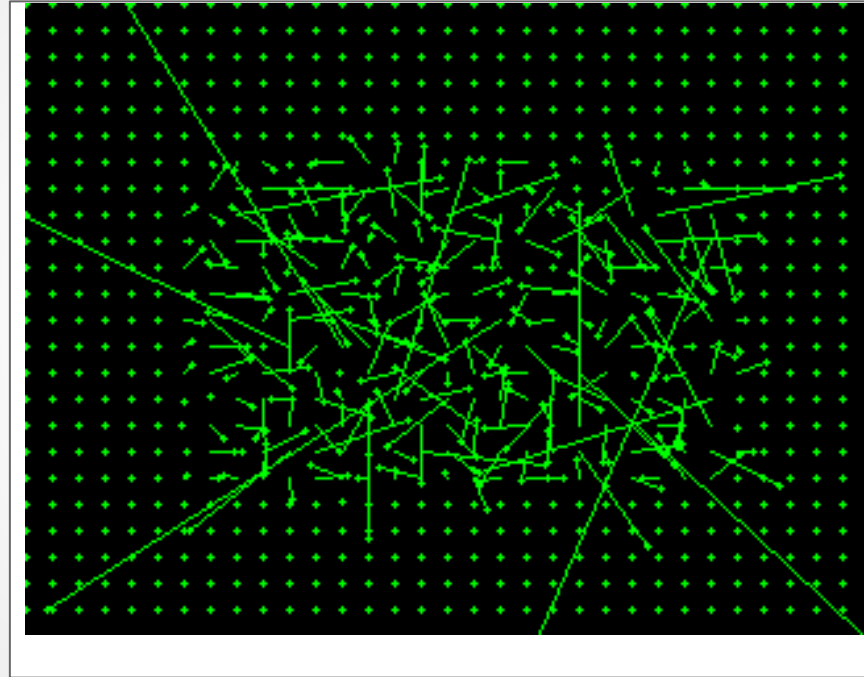

ps4-1-a-1.png

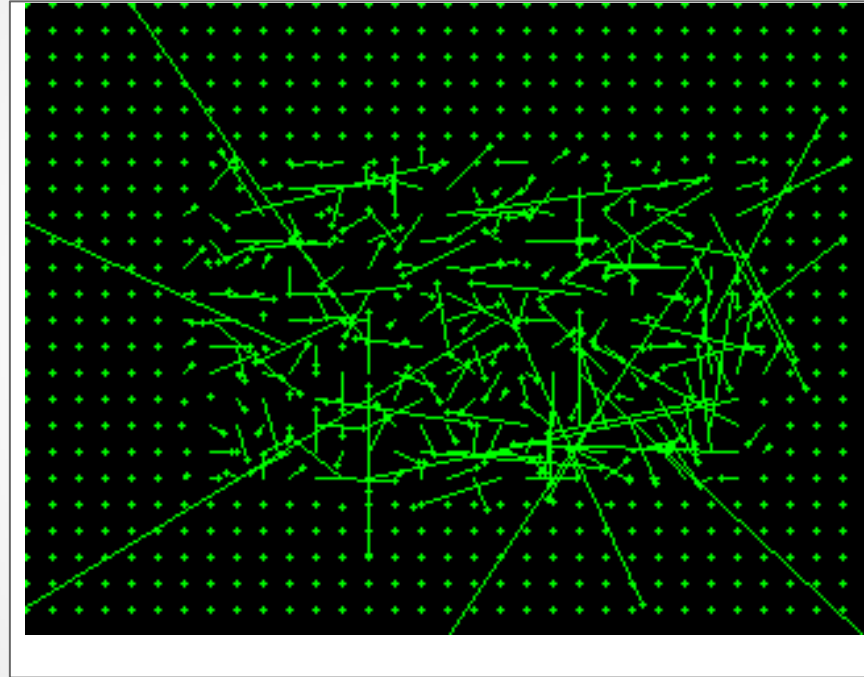# 1a: Base Shift0 and ShiftR5U5

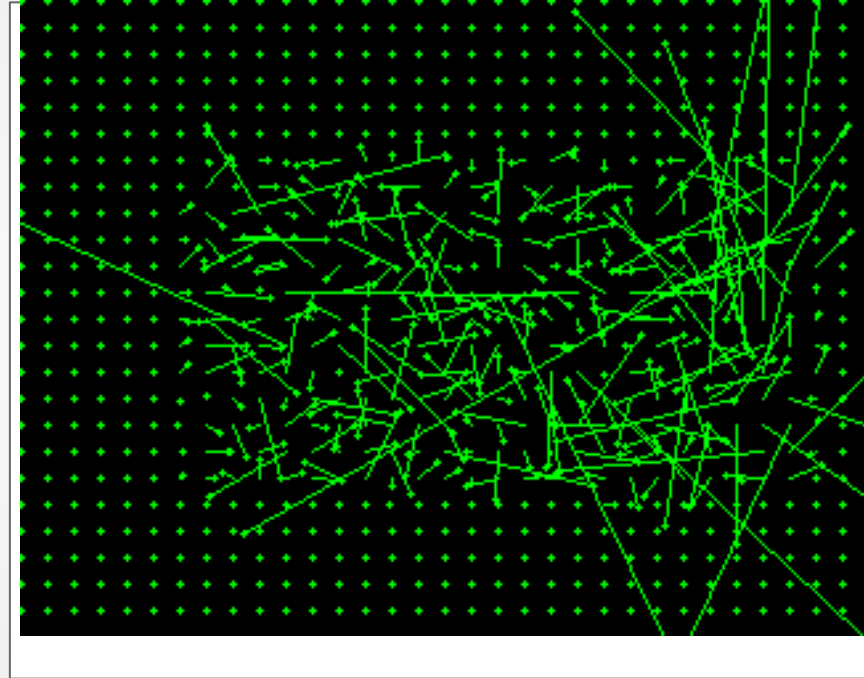**ps4-1-a-2.png**

1b: Base Shift0 and ShiftR10

ps4-1-b-1.png

1b: Base Shift0 and ShiftR20

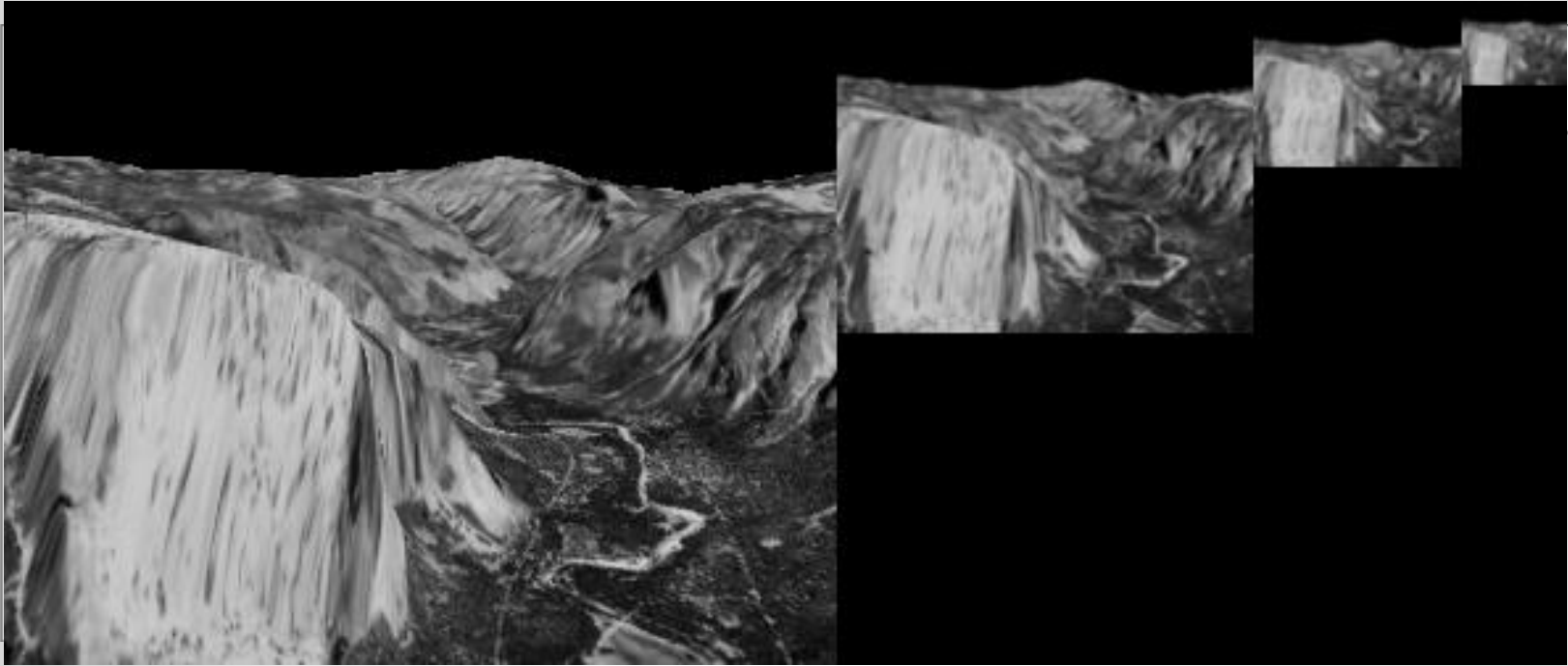ps4-1-b-2.png

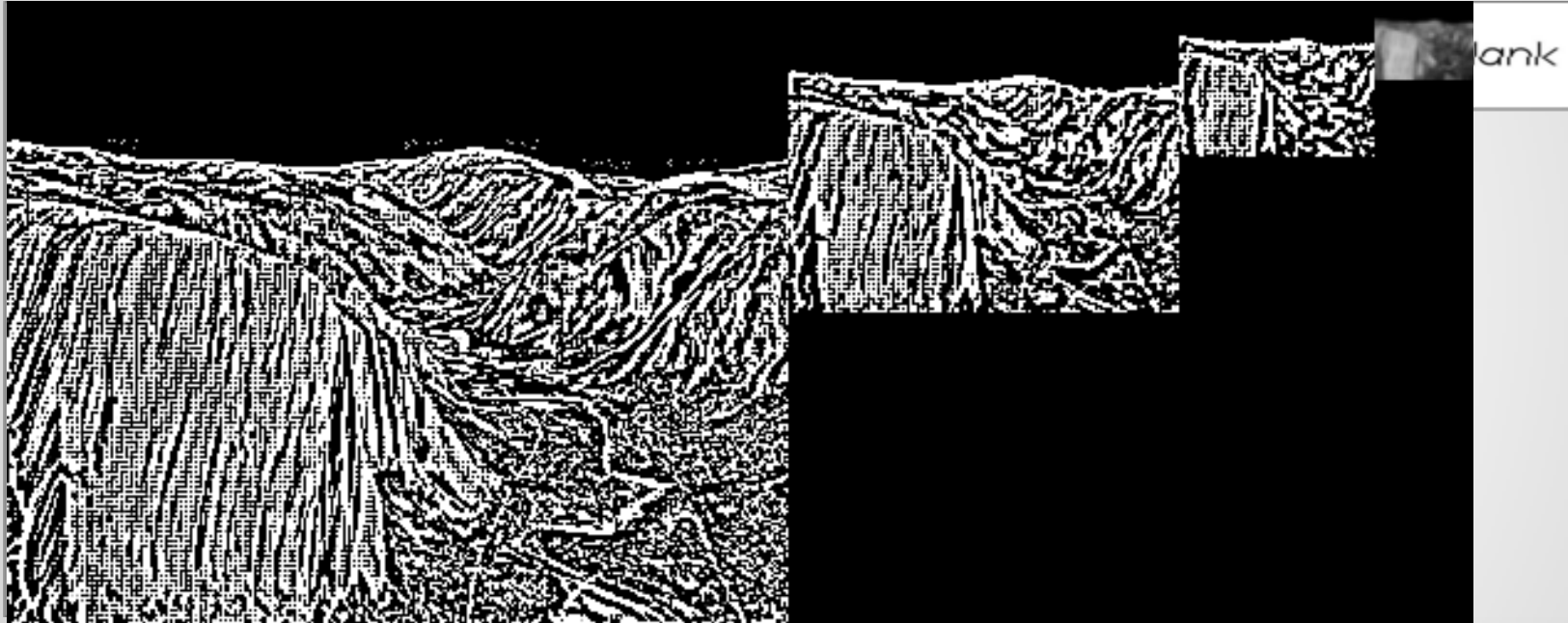# 1b: Base Shift0 and ShiftR40

ps4-1-b-3.png

1b: Text Response

- LK still works but the parameters must be tuned. More specifically, the size of averaging kernel must be tuned in addition to modyfing the filterig type as well.

2a: Gaussian Pyramid

ps4-2-a-1.png

2b: Laplacian Pyramid

Laplacian Pyramid Image - **ps4-2-b-1.png**

3a: Difference images

ps4-3-a-1.png

3a: Difference images (cont.)

ps4-3-a-2.png

4a: Hierarchical LK

ps4-4-a-1.png

4a: Hierarchical LK (cont.)

ps4-4-a-2.png

4a: Hierarchical LK (cont.)

ps4-4-a-3.png
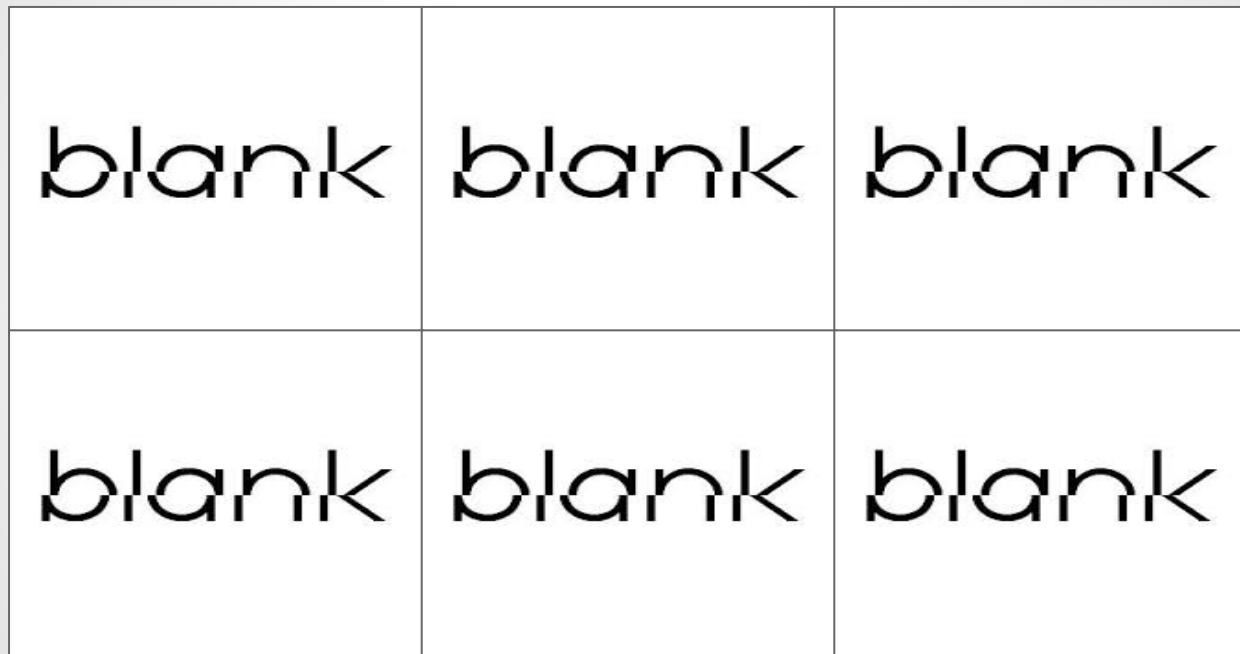
4b: Hierarchical LK (cont.)

ps4-4-b-1.png
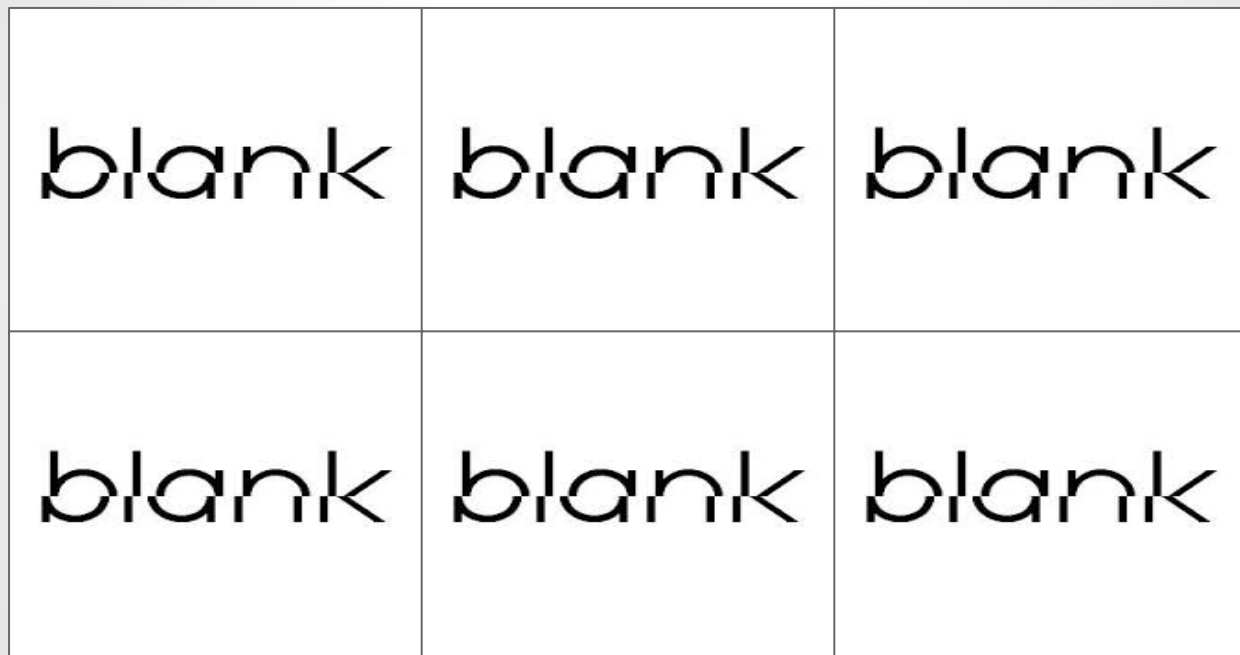
4b: Hierarchical LK (cont.)

ps4-4-b-2.png
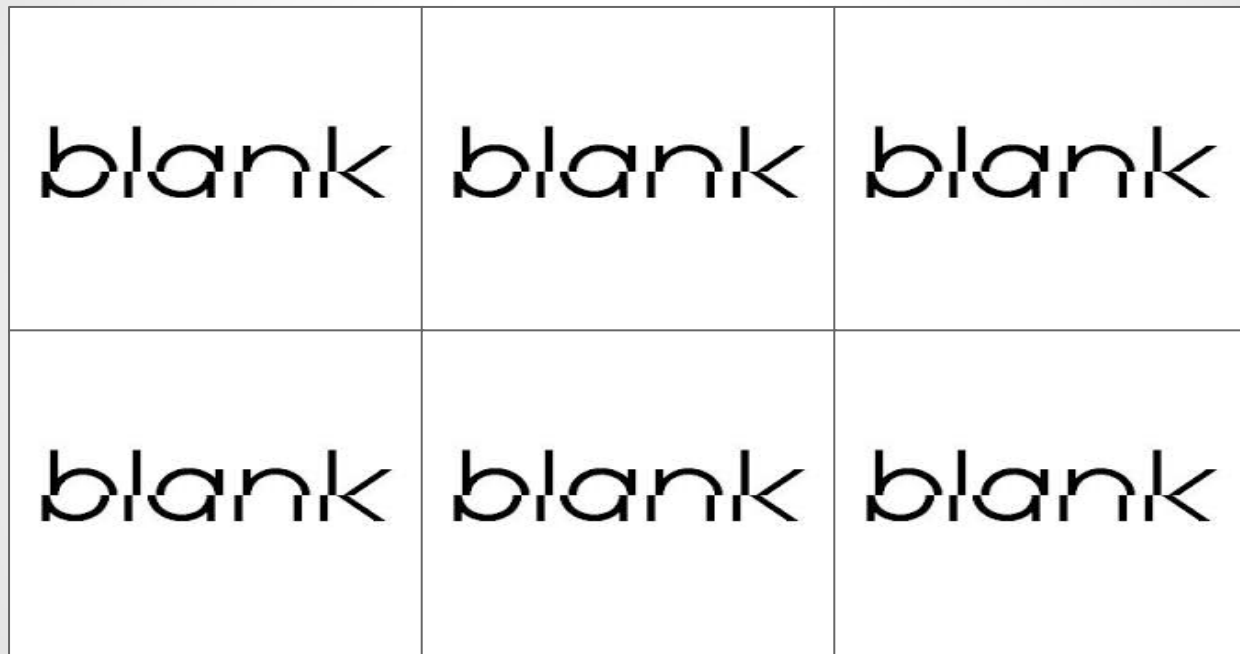
5a: Frame Interpolation

ps4-5-a-1.png

5b: Frame Interpolation

ps4-5-b-1.png

5b: Frame Interpolation

ps4-5-b-2.png

6: Challenge Problem

ps4-6-a-1.png

6: Challenge Problem (cont.)

ps4-6-a-2.png

6: Challenge Problem (cont.)

Video Link

If your pdf is larger than 7MB

Please compress it using (or something similar):

https://smallpdf.com/compress-pdf

Verify that all images are still visible for grading.