

Lecture 1 Worksheet
Seamcarving

Sit with a partner to work on these exercises together though the lecture.
Please turn this in at the end of class. Make sure to write your names and logins legibly.

Question 1: Image resizing

- Grayscale 3x3 image with the following pixel intensities
- What's the importance value of the center pixel?

4	6	5
2	5	7
3	2	6

Question 2: Here is an importance array. Find and circle the best seam and discuss your answer with neighbors

9	3	8	15	1	11	7
6	13	9	5	10	4	14
9	6	7	9	14	7	11

Question 3: Here is a larger importance array. Find and circle the best seam and discuss your answer with neighbors

13	3	1	10	8	11	4
6	10	4	11	12	5	10
1	6	14	10	7	14	7
14	12	10	15	13	3	8
9	3	8	15	1	11	7
6	13	9	5	10	4	14
9	6	7	9	14	7	11

Names: _____

CS Logins: _____

Question 4: Work together to fill in the costs and dirs arrays

Importance Vals

9	12	6	5	12
14	10	6	15	9
4	1	7	10	4
12	11	4	7	15

Costs

Dirs
