

# Post-It Pandemonium

JL Popyack, Drexel University – an “unplugged” activity for illustrating Computer Science Principles

Please assist us by preparing one page of an image, using Post-It Notes to represent pixels.

The code provided below (“Your Data”) represents the 15 pixels on a grid with 3 rows and five columns, as shown below.

Your Data: 0 0 0 0 0 0 3 3 3 3 0 3 5 5 3															0	0	0	0	0
															0	3	3	3	3
															0	3	5	5	3

Each number represents a particular color of Post-It note.

1. Find the Post-It’s you need by viewing the color code chart.
2. Place Post-It’s **on the back of this page** according to the code shown.

There are arrows to indicate ↑ “THIS END UP” ↑ .

Align your Post-It’s with the gridlines on the back, *not the edge of the page*.

Some adhesive from the Post-Its will extend beyond the page, which will allow them to adhere to the display surface.

3. A Quick Lesson in Data Compression: Here is what your data looks like in Compressed format (each pair of numbers represents a *count* followed by a *color*, so “3 2” for instance, means “3 copies of color #2”:

6	0	4	3	1	0	1	3	2	5	1	3
---	---	---	---	---	---	---	---	---	---	---	---

This is Page: A - 1 of the composite image.

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0	3	5	5	5
0	3	5	5	5
0	3	5	5	4

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1 0 1 3 3 5 1 0 1 3 3 5 1 0 1 3 2 5 1 4

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0	3	5	5	5
0	3	5	5	5

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0	3	5	5	5
0	3	5	5	5
0	3	5	5	5

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0	3	3	3	4
0	0	0	0	0

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1 0 1 3 1 5 2 3 1 0 3 3 1 4 5 0

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0	0	0	0	0
4	4	4	4	4
3	3	4	4	4

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5 0 5 4 2 3 3 4

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5	3	3	3	3
5	5	5	5	5
4	4	4	5	5

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1 5 4 3 5 5 3 4 2 5

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5	5	5	5	5
5	5	5	5	5
5	5	5	5	5

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15 5

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5	5	5	5	5
5	5	5	5	5
3	3	3	3	3

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10 5 5 3

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Your Data: 3 4 4 4 4 4 4 4 4 4 0 0 0 0 0

3	4	4	4	4
4	4	4	4	4
0	0	0	0	0

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Your Data: 0 0 0 0 0 4 4 2 2 2 4 4 2 2 2															0	0	0	0	0
															4	4	2	2	2
															4	4	2	2	2

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5	0	2	4	3	2	2	4	3	2
---	---	---	---	---	---	---	---	---	---

This is Page: 

C - 1
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3	4	4	2	2
3	3	3	3	4
5	5	5	3	4

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5	5	5	3	3
5	5	5	5	5
5	5	5	3	3

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5	5	5	3	4
3	3	3	3	4
3	4	2	2	2

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4	4	2	2	2
4	4	2	2	2
0	0	0	0	0

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2 4 3 2 2 4 3 2 5 0

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0	0	0	0	0
2	2	2	2	0
2	2	2	2	0

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5 0 4 2 1 0 4 2 1 0

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2	2	2	2	0
2	2	2	2	0
4	2	3	2	0

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4 2 1 0 4 2 1 0 1 4 1 2 1 3 1 2 1 0

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2	2	3	2	0
2	2	2	2	0
2	2	2	2	0

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2	2	2	2	0
2	2	2	2	0
0	0	0	0	0

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4 2 1 0 4 2 6 0

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