**Order vs Disorder**

**Mason Scott (Roommate):**

Order algorithm steps:

1. Separate the file by Group of the same number
2. ﻿﻿﻿Compare each Group starting to the right
3. ﻿﻿﻿pick one Group from the right and compare it with the left Group.

* The lowest Group Goes to the left
* ﻿﻿The Highest Group Goes to the right
* ﻿﻿Repeat step 3 until the highest group number is on the right side. (Step repeated 10 times)

1. Check that all carts are Sorted

N: refers to the order of the cards by a group making the pile look smaller

Big O: comparing each group and placing a group to the left if the group is lower than the one on hand.

Insights: Mason mentioned that it’s easy to identify the order once the pile is in group and the number of cards look smaller and easy to sort

Steps: 10

**Dawson Dorcenat (Roommate):**

1. Separate all cards in the Pile
2. Grab a card and compare it to another one from the separated pile
3. Place the lowest card to the left and compare the card in your hand with one from the separate pile.

* Repeat Steps 2-3 until you Have one card in your hand

N: is the number of separations which is 52

Big O: comparing one card to another of the separate pile and placing the lower card to the left side.

Insights: He could improve the algorithm by separating the pile into groups of 4 to shorten the steps of sorting from left to right

Steps: 20