

- stored

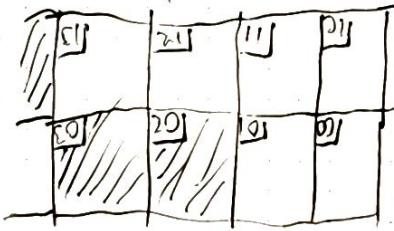
Arrays works like drawers.

4	5	6
1	2	3

This means that if 3 is occupied and you need three slots, you'll get 1, 2 and 4. This is one of the cons. This is where linked lists comes in.

With linked lists, your items can be anywhere

Each item stores the address of the next item in the memory. Let's say a bunch of random memory addresses are linked together.



• you can split up data and share it separately.

Selection Sort.

$O(n^2)$ time or $O(n \times n)$ time • Not a fast sorting method.

Selection Sort

function for selection sort

```
def selectionSort(arr):
    smallest = arr[0]
    smallest_index = 0
    for i in range(1, len(arr)):
        if arr[i] < smallest:
            smallest = arr[i]
            smallest_index = i
    return smallest_index
print(selectionSort([...]))
```