Arrays Vs. Linked Lists

Array: Contiguous Memory

Linked Lists: Non-contiguous Memory
Make this train

Engine → PassengerCar → Caboose

Nathan → Paul → luggage
Convert into this train

- Engine
- Nathan
- PassengerCar
- Allen
- Caboose
- luggage
How can we make this one?
LinkedNode puzzle

We start with this arrangement:

Now make it this:

Rules:
- You can’t change the data field
- You can only “start with” a left-most node
LinkedNode puzzle

We start with this arrangement:

```
0 → 1 → 2
3 → 4
```

Now make it this:

```
0 → 1 → 3 → 4 → 2
```

Rules:
- You can’t change the data field
- You can only “start with” a left-most node
LinkedNode puzzle

We start with this arrangement:

```
0 -> 1 -> 3 -> 4 -> 2
```

Rules:
- You can’t change the data field
- You can only “start with” a left-most node

Now make it this:

```
2 -> 0 -> 1 -> 3 -> 4
```