

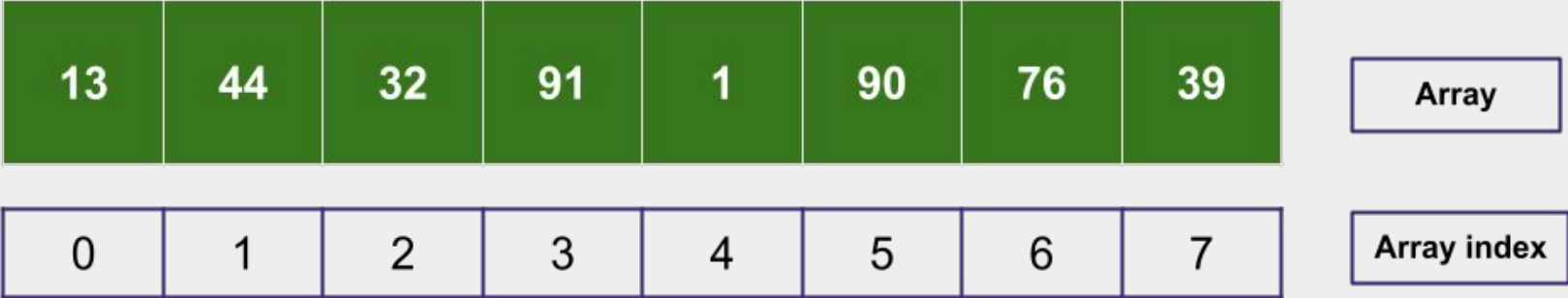
Arrays

Outline

- Array
- Array in java
- Random access
- Multi dimensional array
- Jagged/Ragged array
- System.arraycopy()
- Random Class
- Interview Questions

Array

In computer science, an array is a data structure consisting of a collection of elements (values or variables), each identified by at least one array index or key.

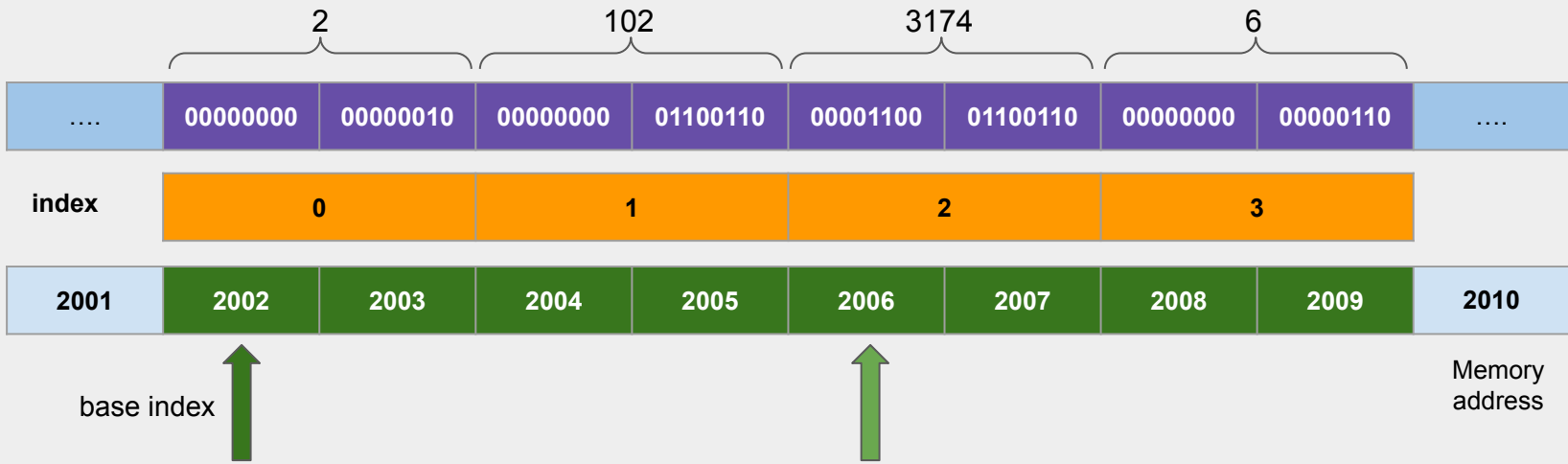


Array in java

- Array reference
- Creating Arrays
- Accessing Elements
- Default value
- Traversing Arrays
- Anonymous array
- How Random Access performed

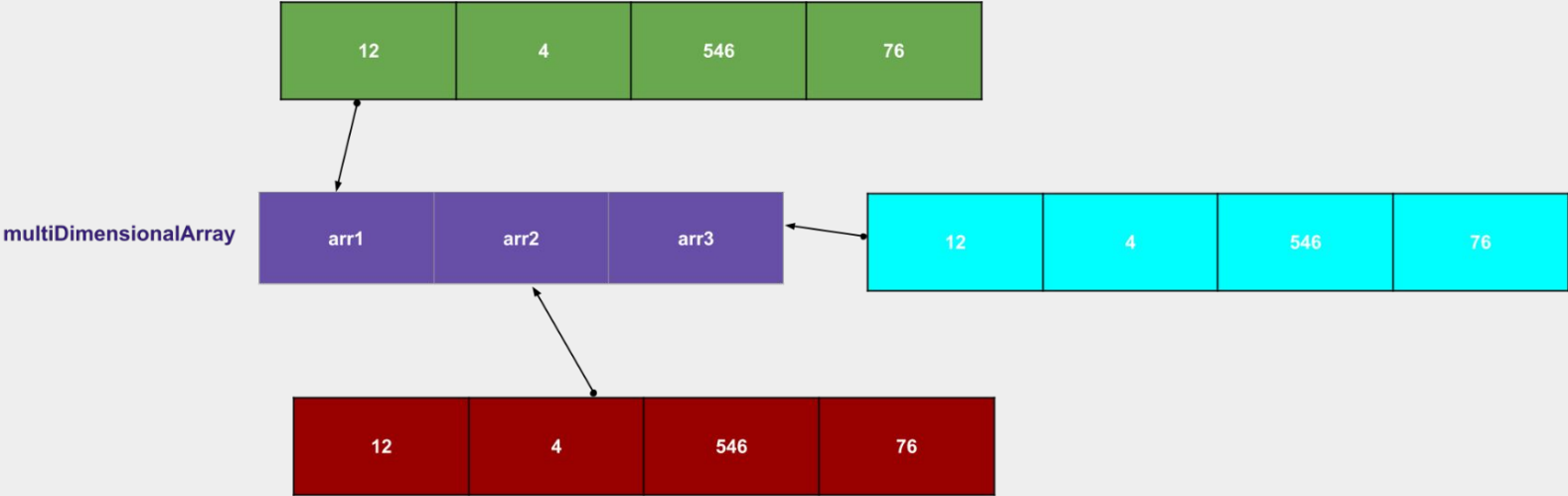
Random Access

```
short[] numbers = new short[]{2, 102, 3174, 6};
```

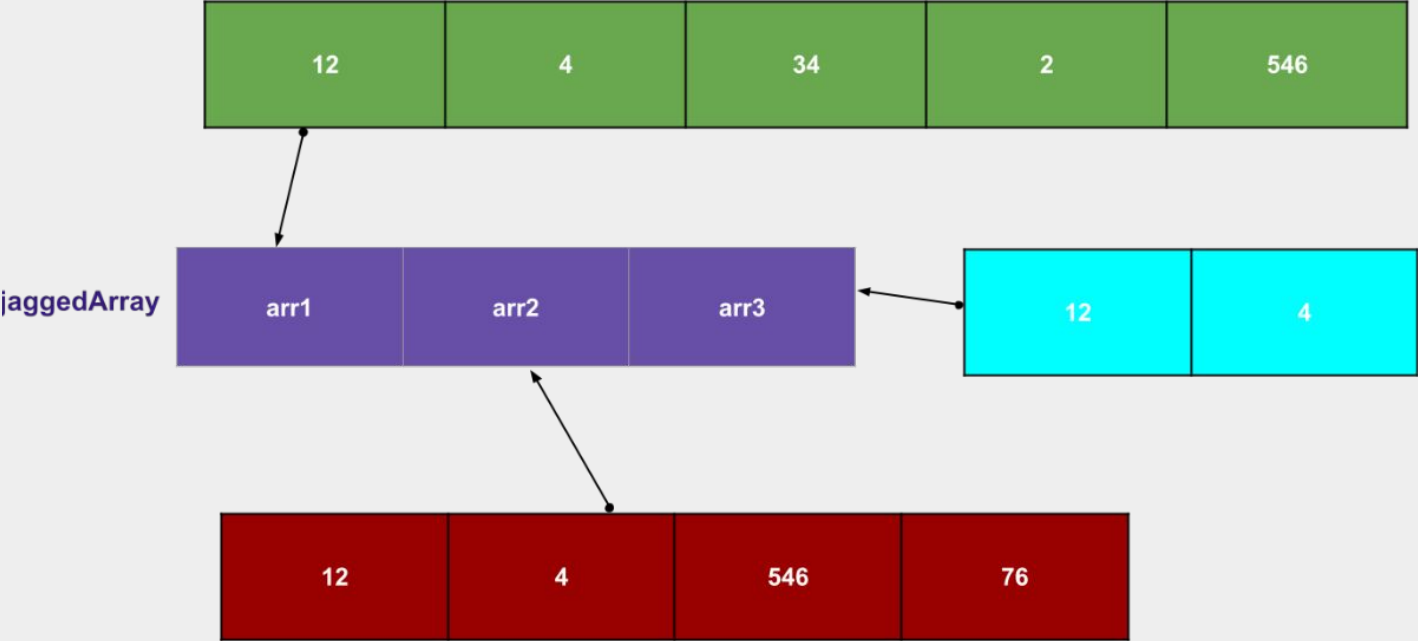


$$\text{numbers}[n] = \text{base_index} + \text{data_type_size} * n$$

Multi dimensional array

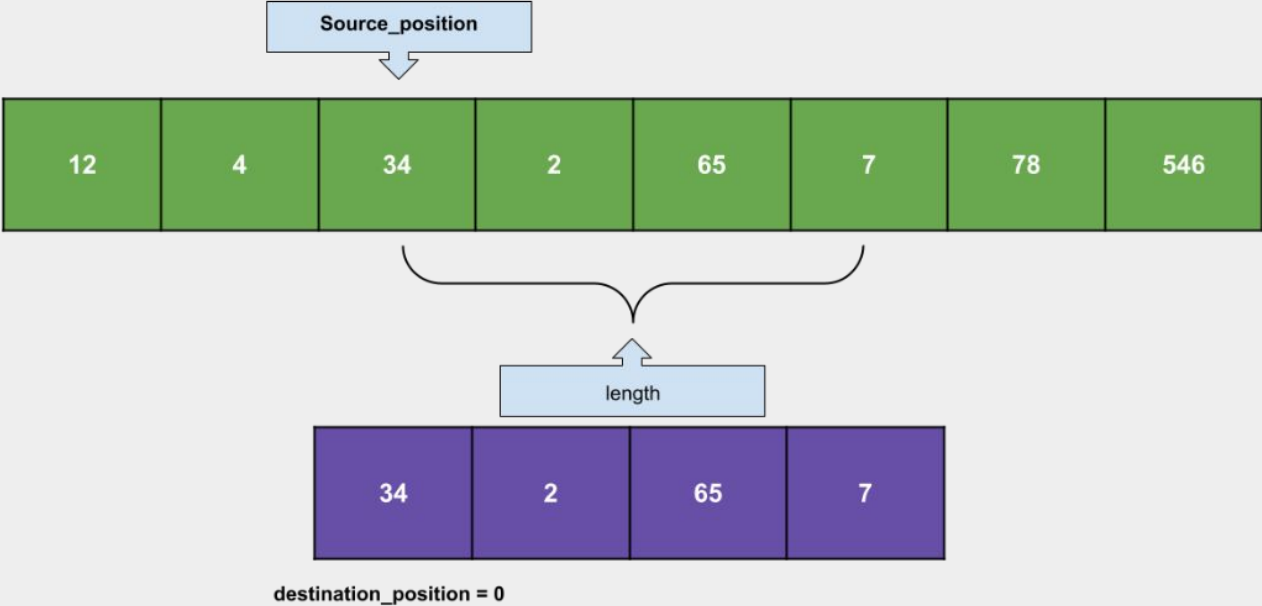


Jagged/Ragged array



System.arraycopy()

```
arraycopy(Object src, int srcPos, Object dest, int destPos, int length);
```



Random Class

Used to generate random numbers

Interview Questions

“Whatever we believe about ourselves and our ability comes true for us”