

# 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.

13	44	32	91	1	90	76	39
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Array

0	1	2	3	4	5	6	7
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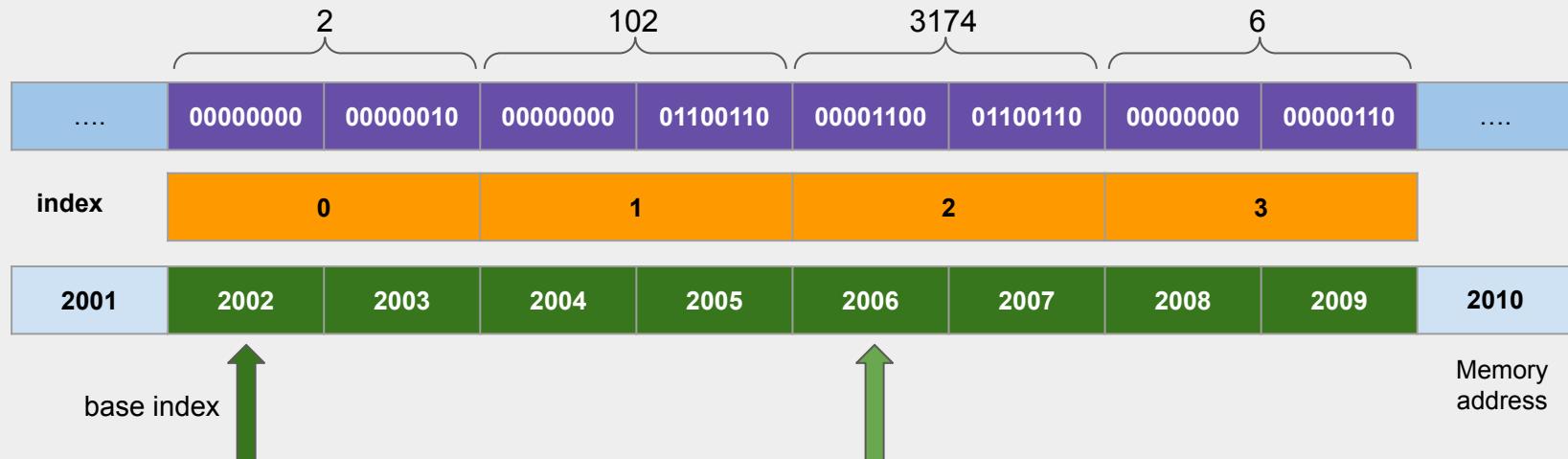
Array index

# 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};
```

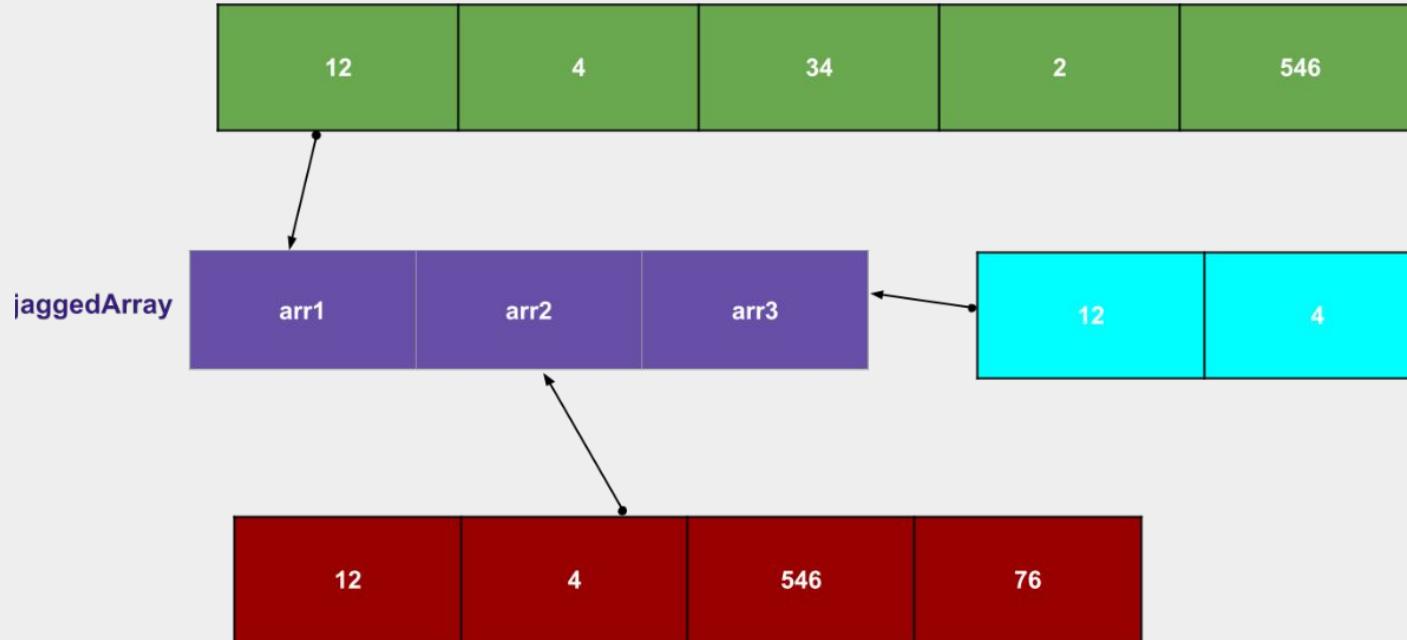


```
numbers[n] = base_index + data_type_size * n
```

# Multi dimensional array

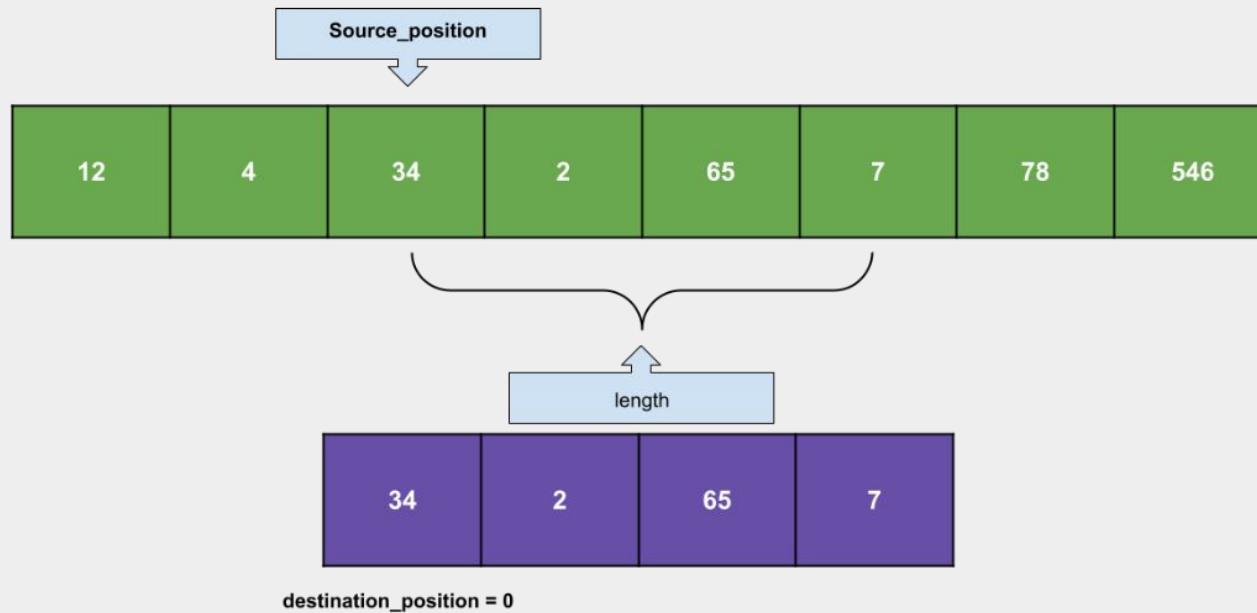


# Jagged/Ragged array



# 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”**