JAVA



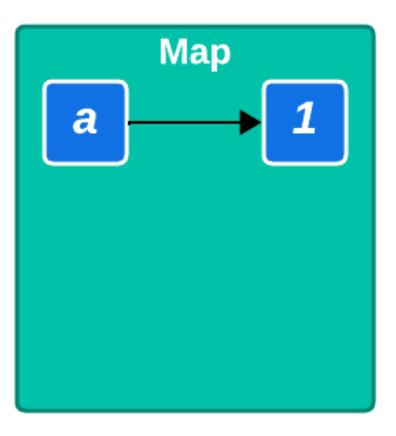
МНОГОПОТОЧНОСТЬ. ConcurrentHashMap



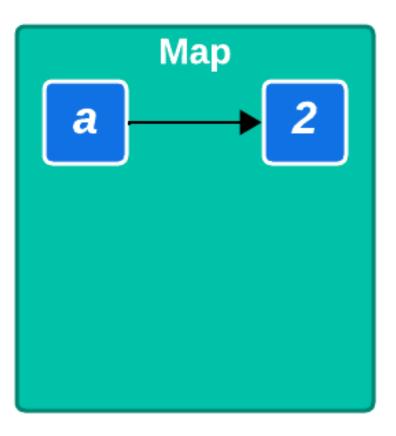
A a kiu I sw Skieo12Dd

Map

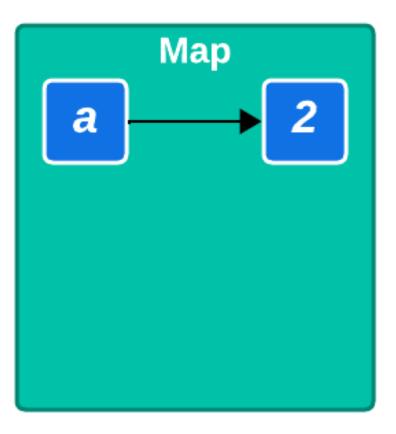




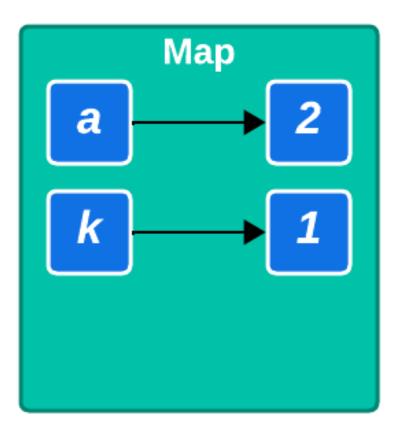




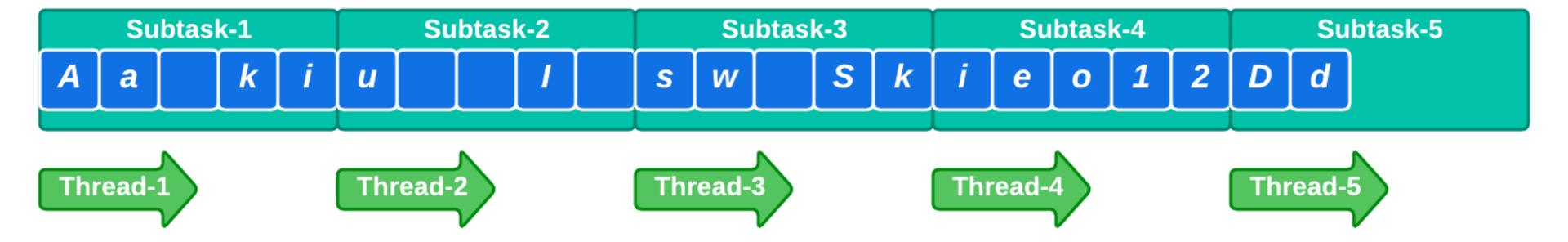


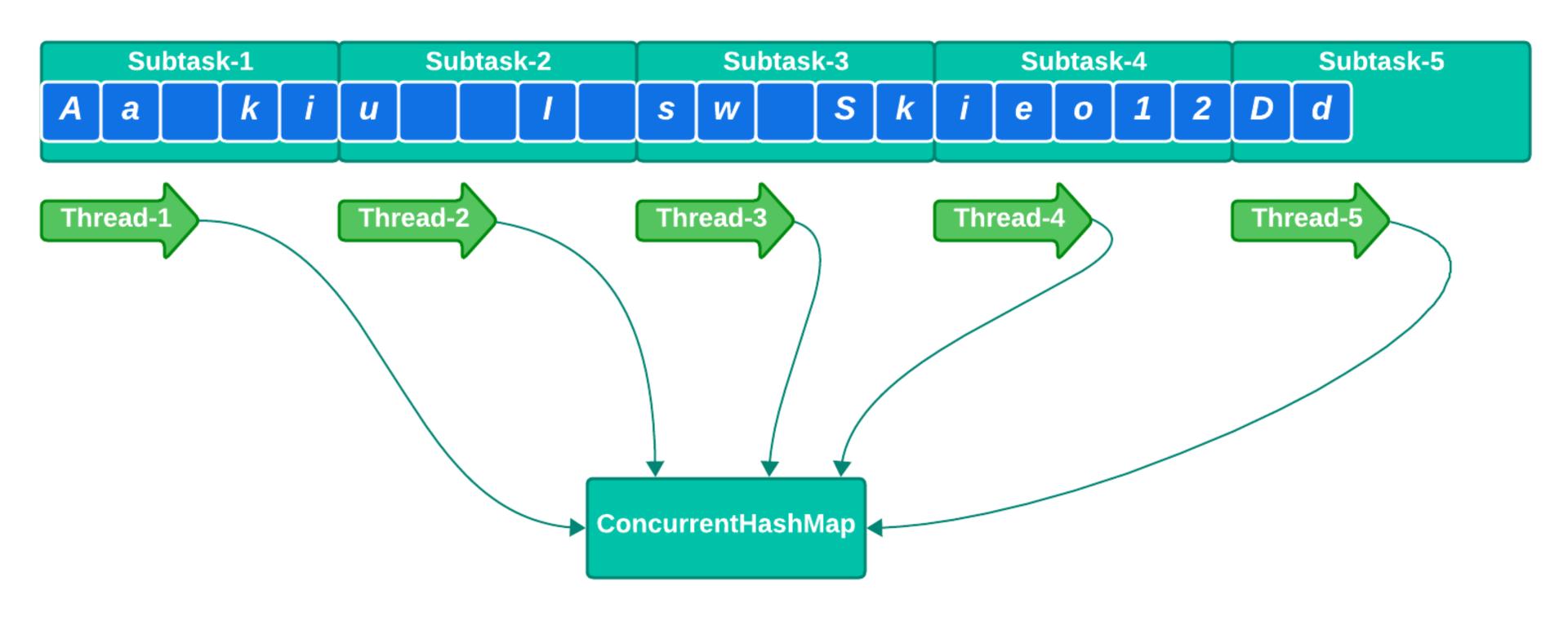


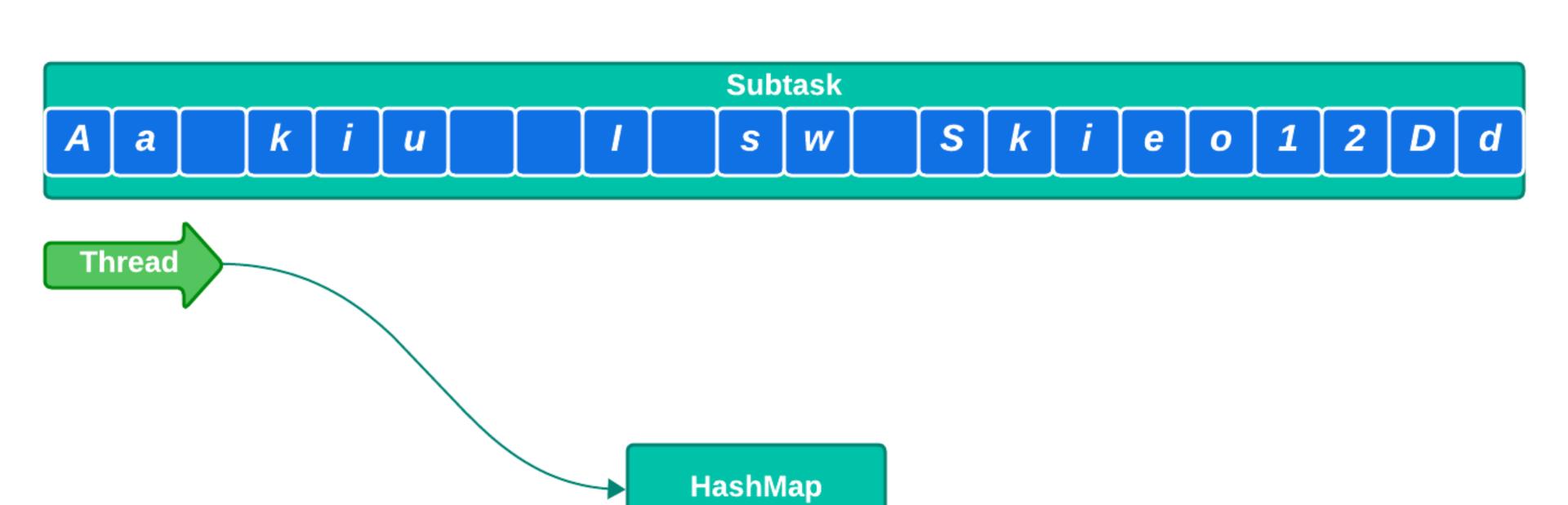




	Su	btas	k-1			Su	btasl	<-2		Su	btas	k-3			Su	btas	k-4			Su	btask-5
4	a		k	i	u			1	s	W		S	k	i	е	O	1	2	D	d	

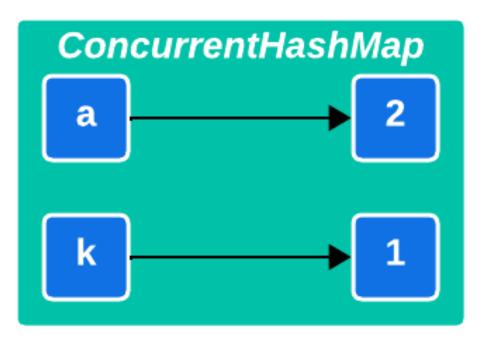






```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-1
```

codePoint	letter	frequency
-	-	-

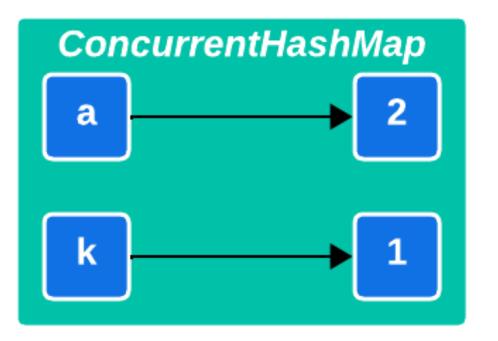


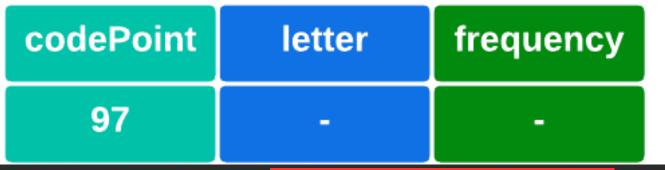


```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

```
private void accumulate(final int codePoint)
final Character letter = (char) codePoint;
final Integer frequency = accumulator.get(letter);
if (frequency != null) {
    accumulator.put(letter, frequency + 1);
} else {
    accumulator.put(letter, 1);
}
Thread-1
```

codePoint	letter	frequency
97	-	-



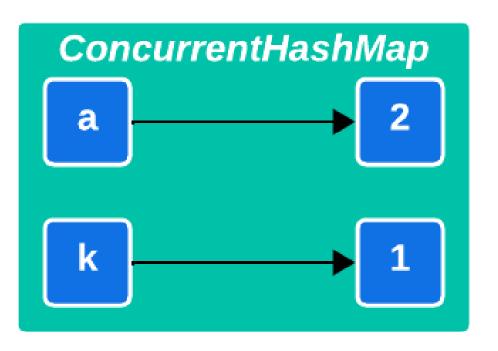


```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
```

Thread-1

codePoint	letter	frequency
97	a	-

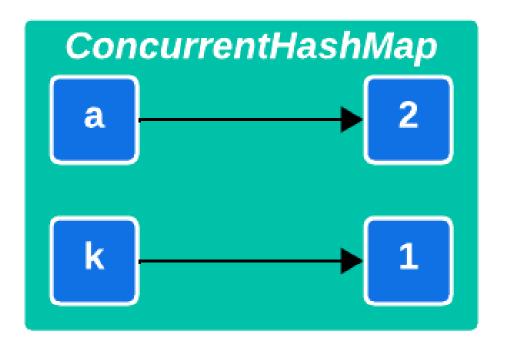


```
codePointletterfrequency97a-
```

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-1
```

codePoint	letter	frequency
97	a	2



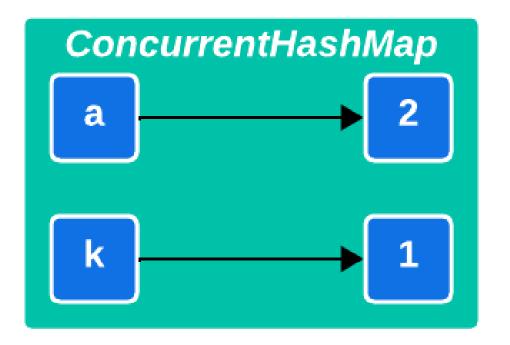
codePoint	letter	frequency
97	a	2

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;

    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-1
```

codePoint	letter	frequency
97	a	2

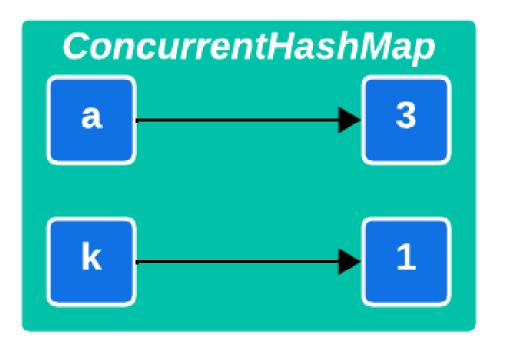


codePoint	letter	frequency
97	a	2

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-1
```

codePoint	letter	frequency
97	а	2



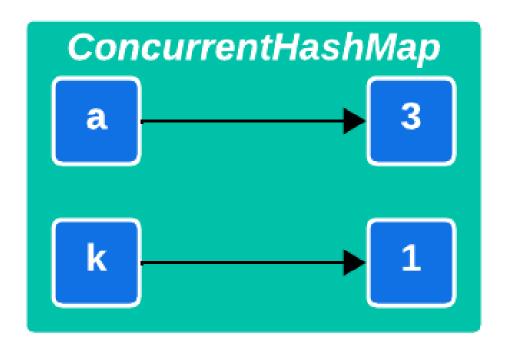
codePoint	letter	frequency
97	a	2

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
```

Thread-1

codePoint	letter	frequency
97	a	2



codePoint	letter	frequency
97	a	2

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
Thread-2
```

non-thread-safe

```
private void accumulate(final int codePoint) {
    final Character letter = (char) codePoint;
    final Integer frequency = accumulator.get(letter);
    if (frequency != null) {
        accumulator.put(letter, frequency + 1);
    } else {
        accumulator.put(letter, 1);
    }
}
```

thread-safe

```
private void accumulate(final int codePoint) {
    accumulator.merge((char) codePoint, value: 1, Integer::sum);
}
```

