

Permutations

Problem Statement # 1

Permutation in String

Input s1 : "abc"

Input s2: "eidbacoo"

Understand the Problem

a	b	c
---	---	---

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

Questions to ask yourself

- If there are duplicate In the first string, should we retain? Yes
- If there are multiple matches, then what should I return? Just return true !
- What if there are no matches? Return false

Test Conditions / Data Set

a	b	c
---	---	---

e	i	c	b	a	o	o	o
---	---	---	---	---	---	---	---

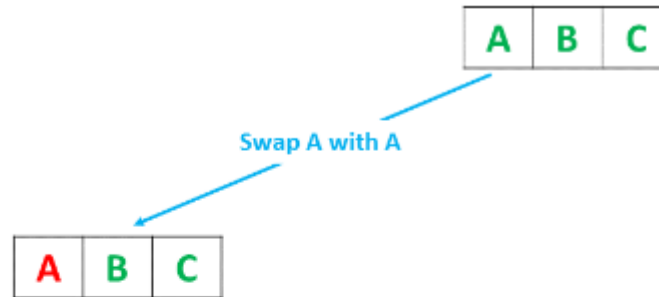
- Duplicated characters
- Unique characters
- Multi existing occurrences
- Single matches
- No Matches
- Both Strings are same

Brute Force

A	B	C
---	---	---

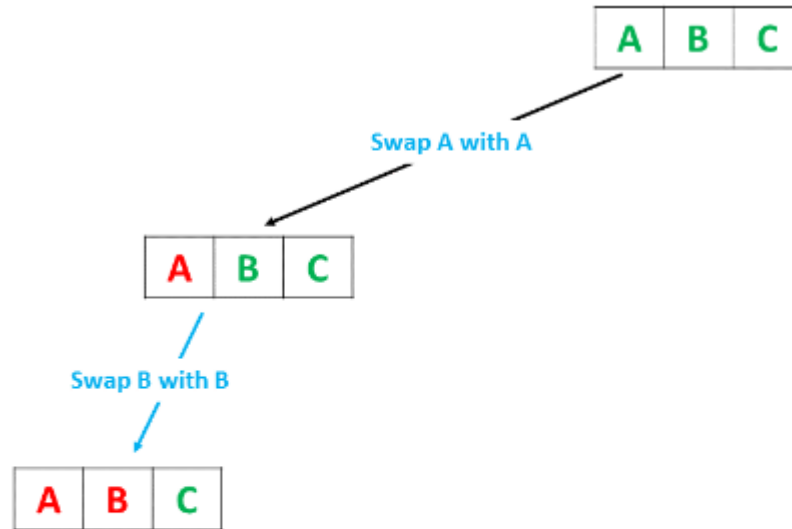
■ Fixed Characters

Brute Force



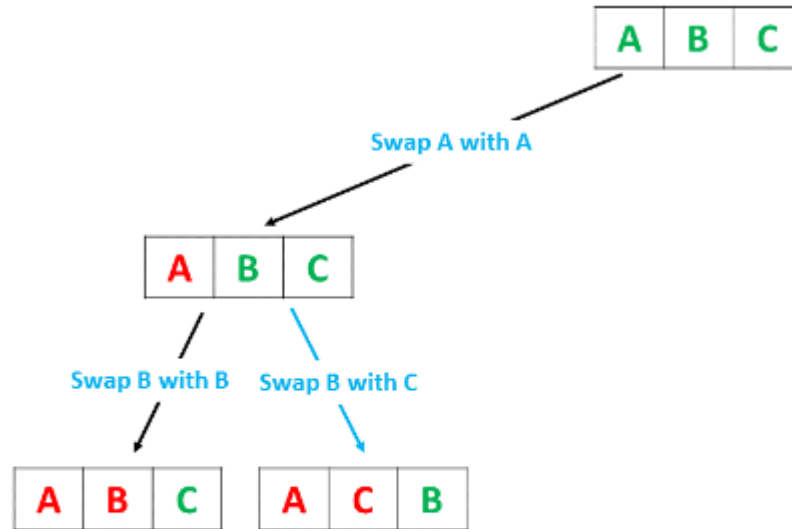
■ Fixed Characters

Brute Force



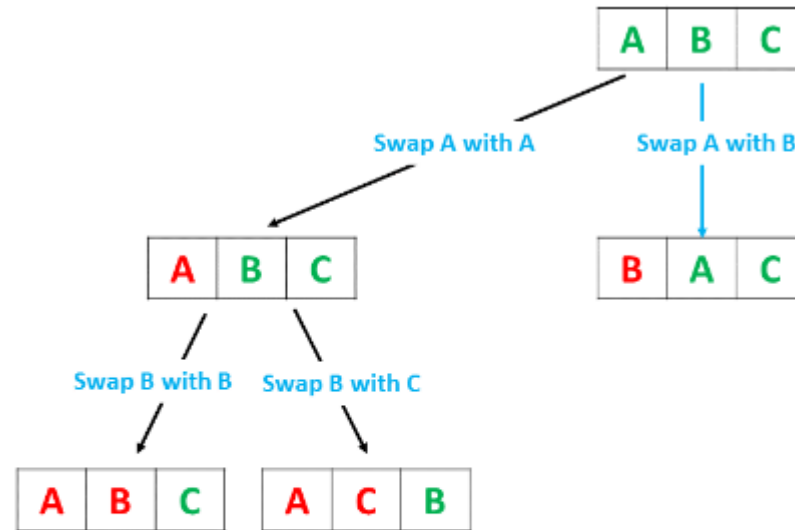
■ Fixed Characters

Brute Force



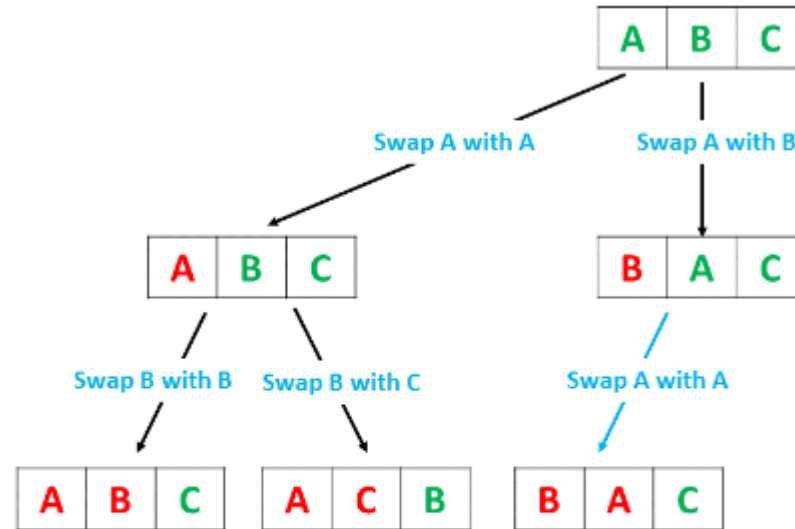
■ Fixed Characters

Brute Force



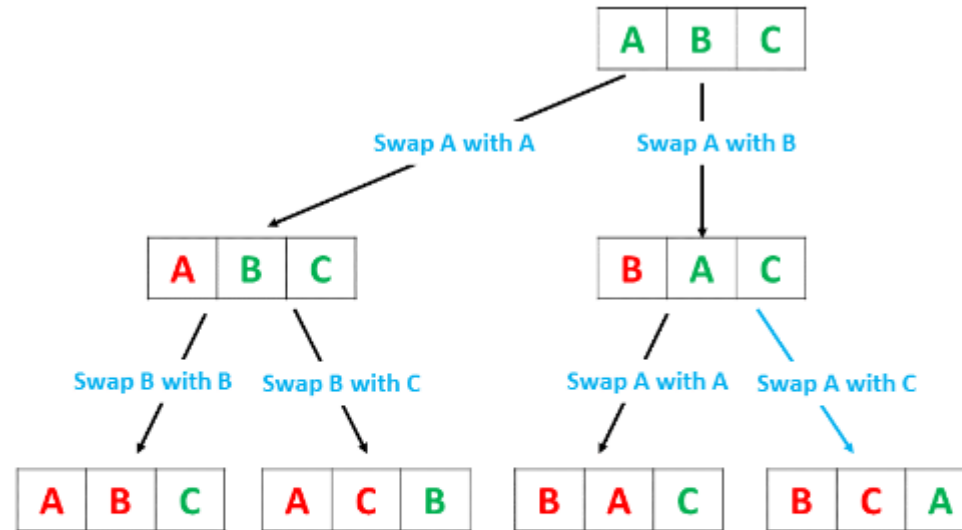
■ Fixed Characters

Brute Force



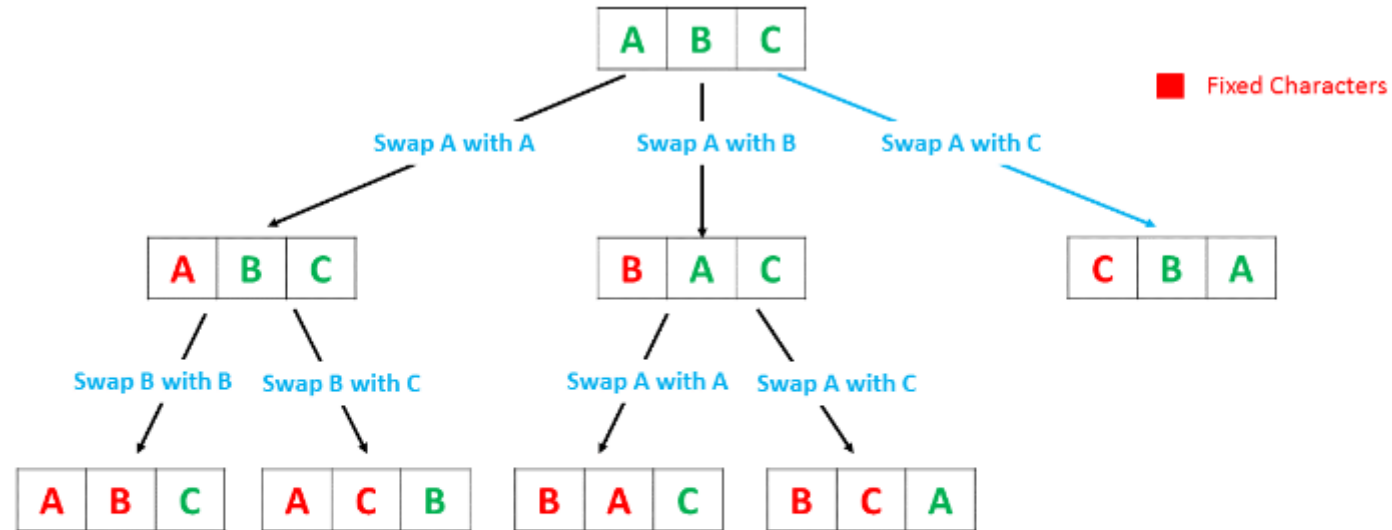
■ Fixed Characters

Brute Force

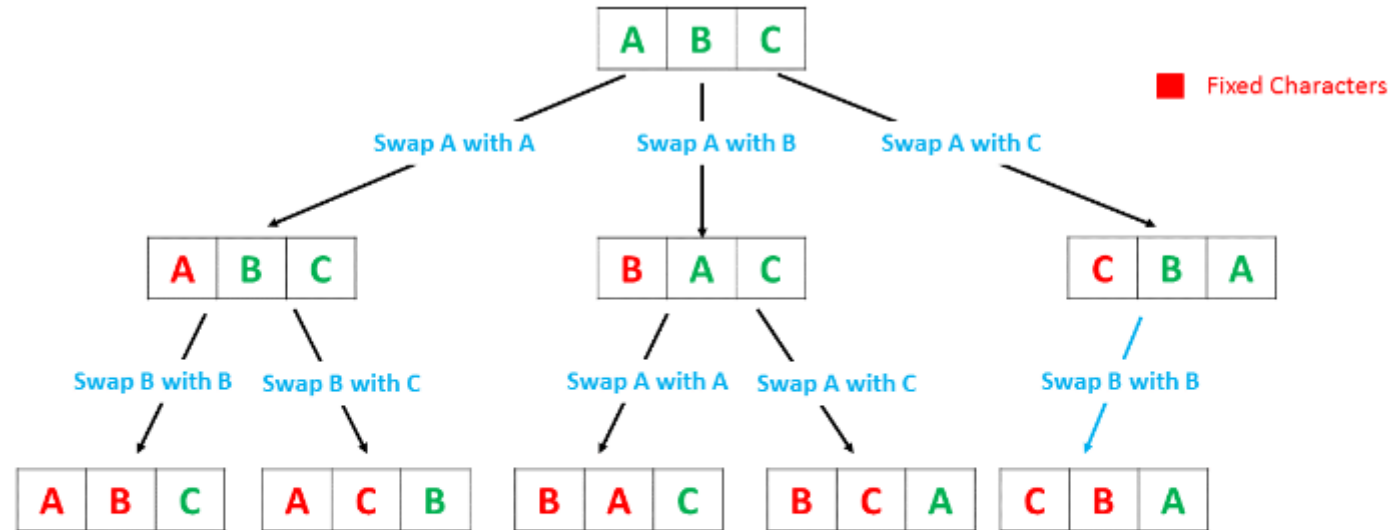


■ Fixed Characters

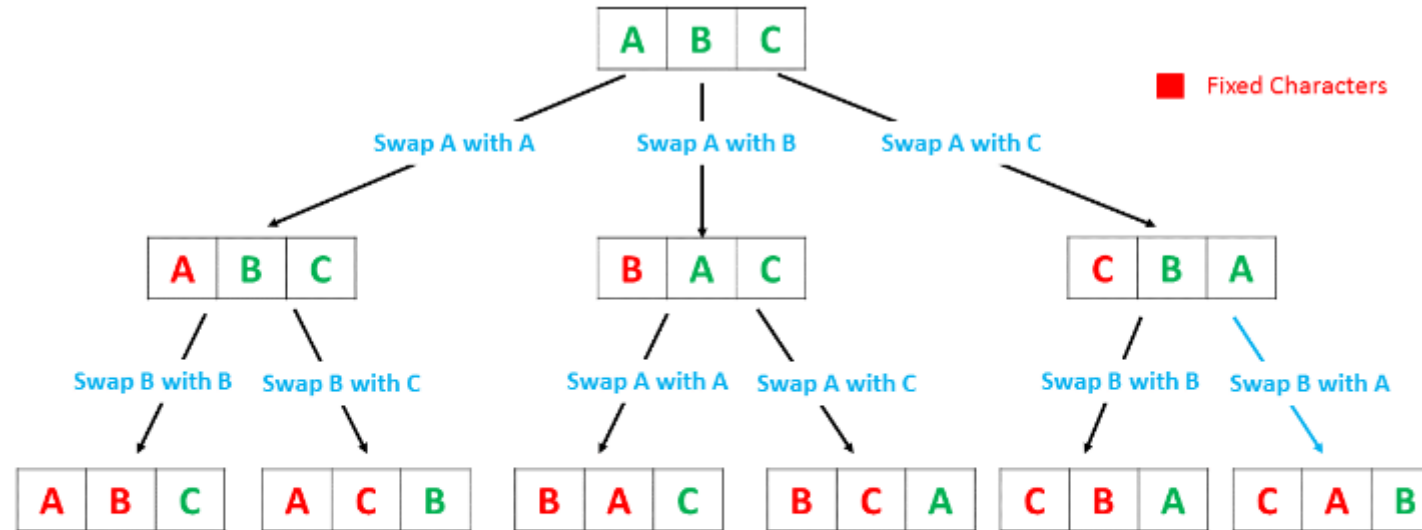
Brute Force



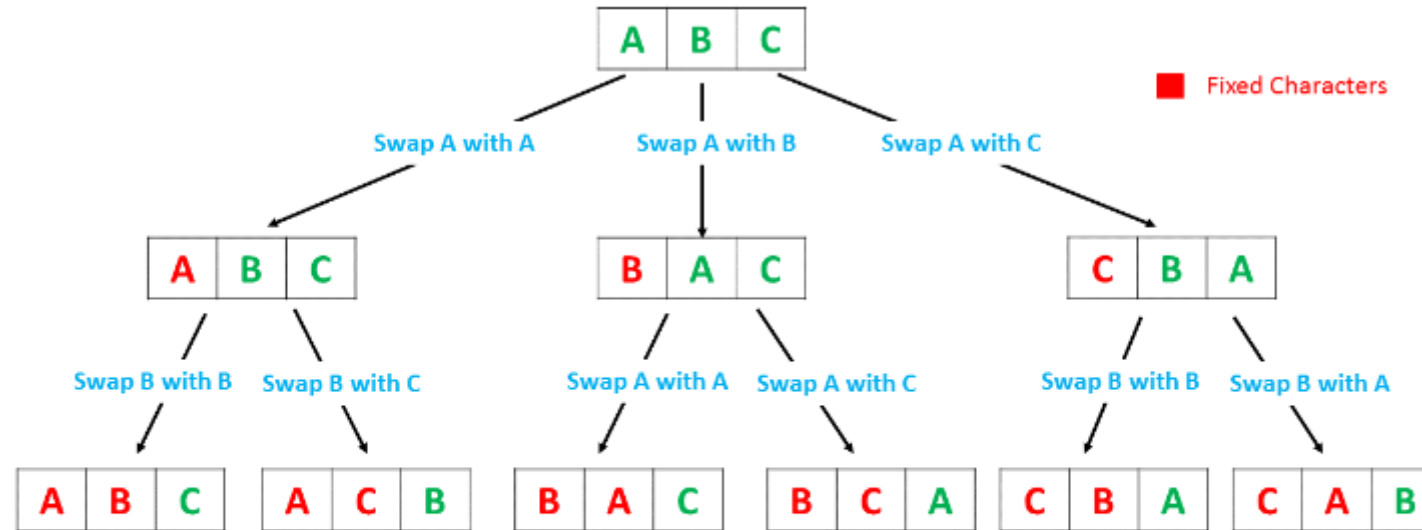
Brute Force



Brute Force



Brute Force



Sorting

b	a	c
---	---	---

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

Sorting

a	b	c
---	---	---

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

Sorting

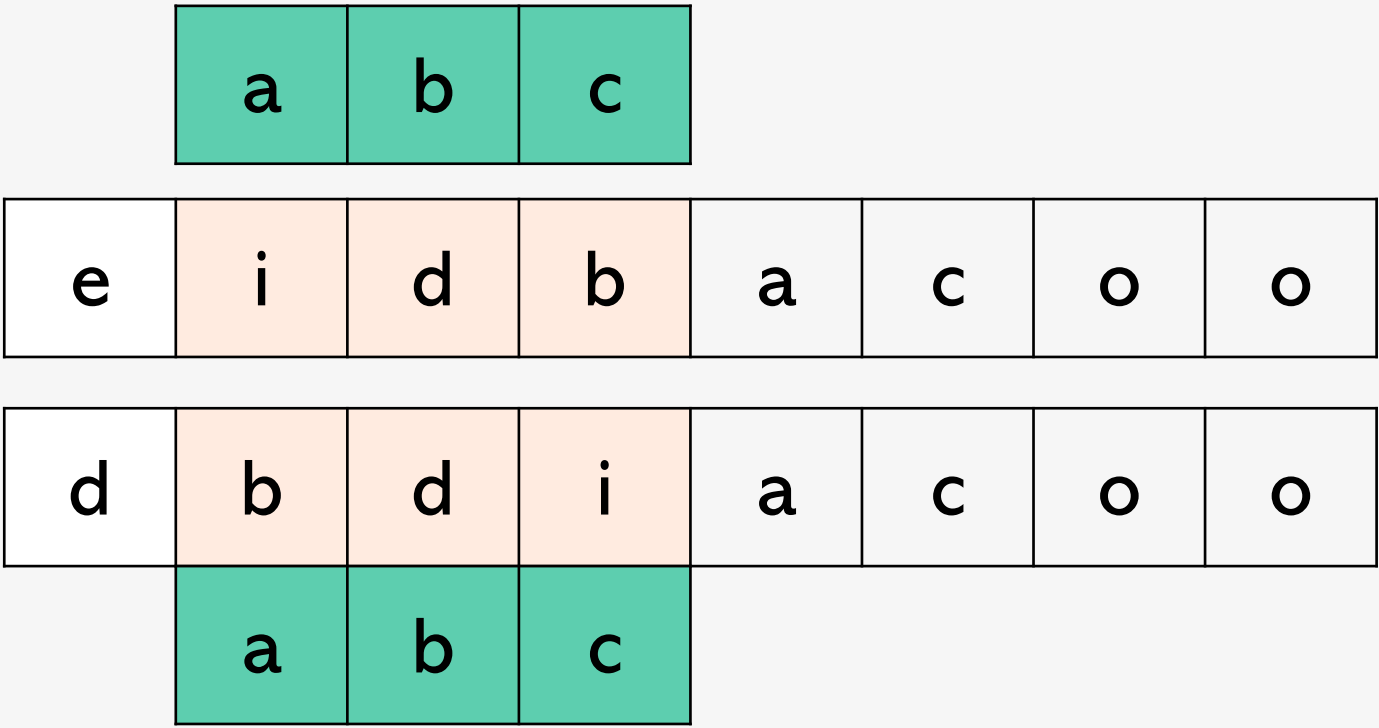
a	b	c
---	---	---

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

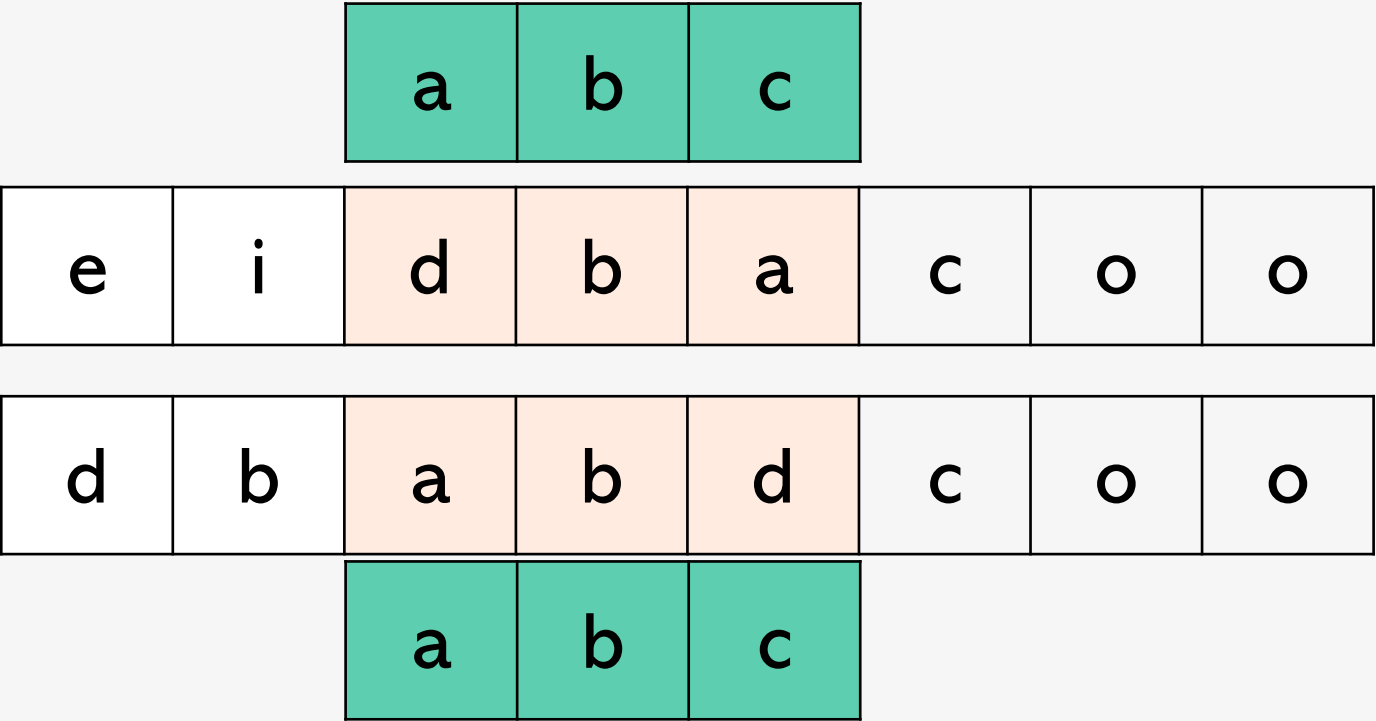
d	e	i	b	a	c	o	o
---	---	---	---	---	---	---	---

a	b	c
---	---	---

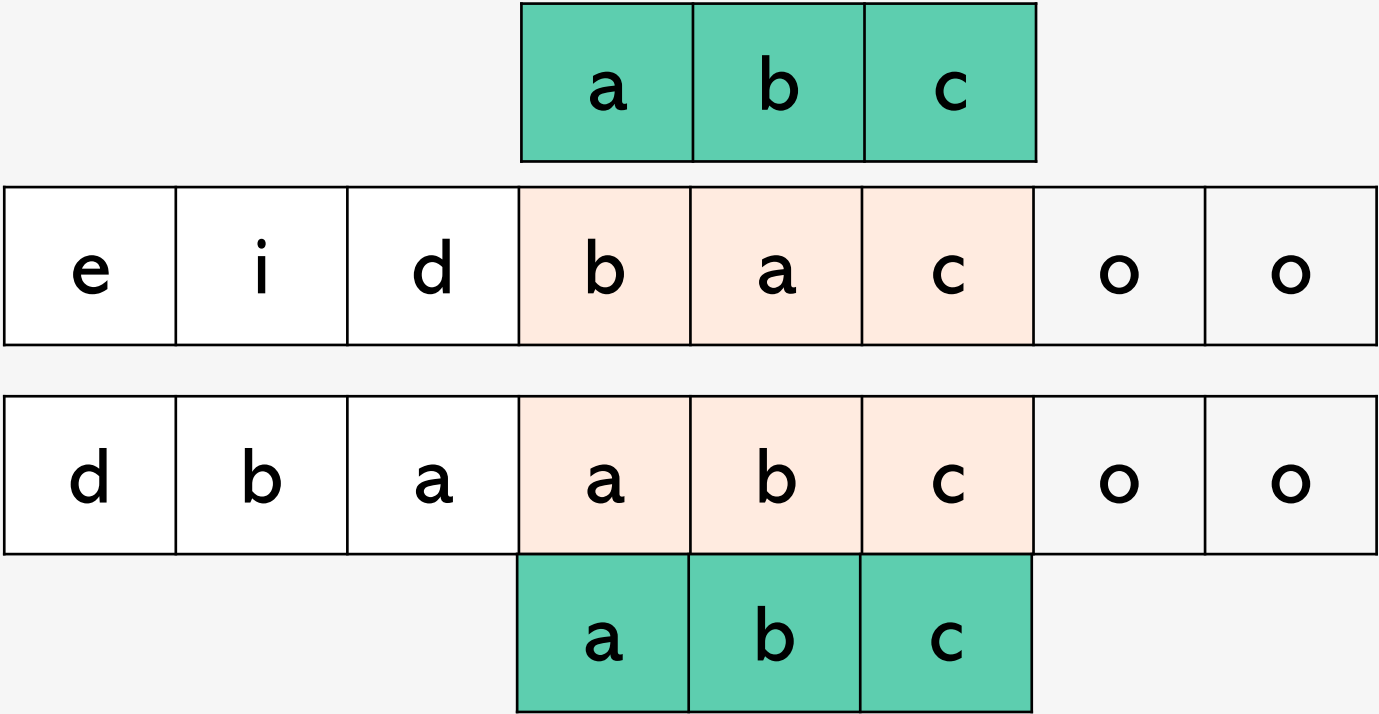
Sorting



Sorting



Sorting



Sorting

			a	b	c		
e	i	d	b	a	c	o	o
d	b	a	a	b	c	o	o
			a	b	c		

HashMap

b	a	c
---	---	---

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

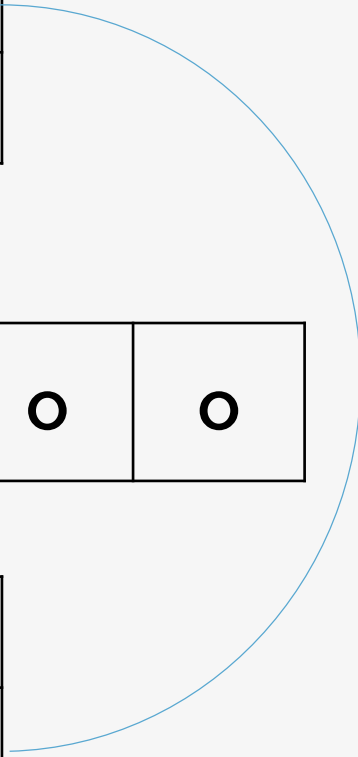
HashMap

b	a	c
---	---	---

a	1
b	1
c	1

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

e	1
i	1
d	1



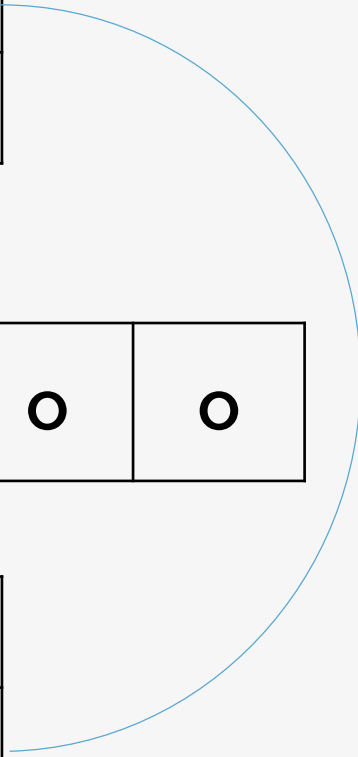
HashMap

b	a	c
---	---	---

a	1
b	1
c	1

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

i	1
d	1
b	1



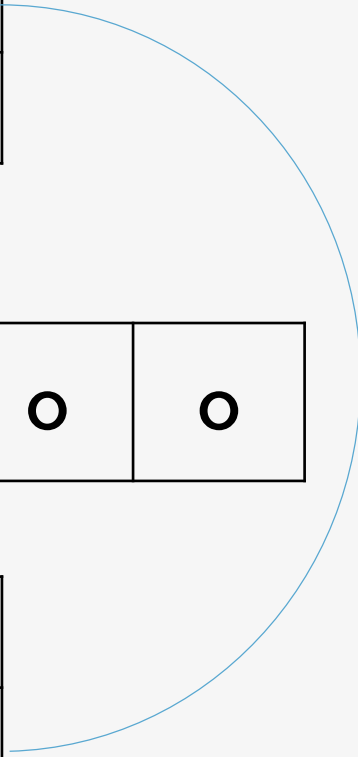
HashMap

b	a	c
---	---	---

a	1
b	1
c	1

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

a	1
d	1
b	1



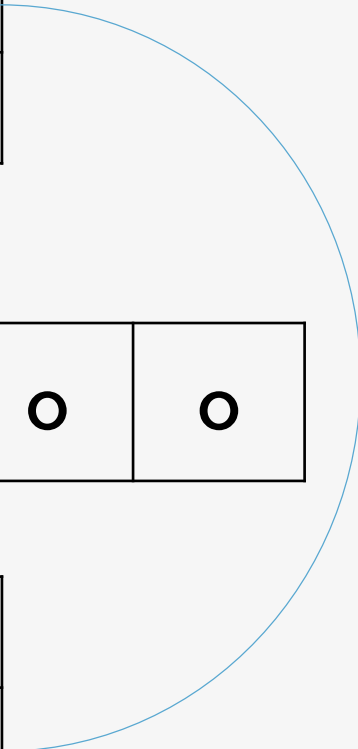
HashMap

b	a	c
---	---	---

a	1
b	1
c	1

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

a	1
c	1
b	1



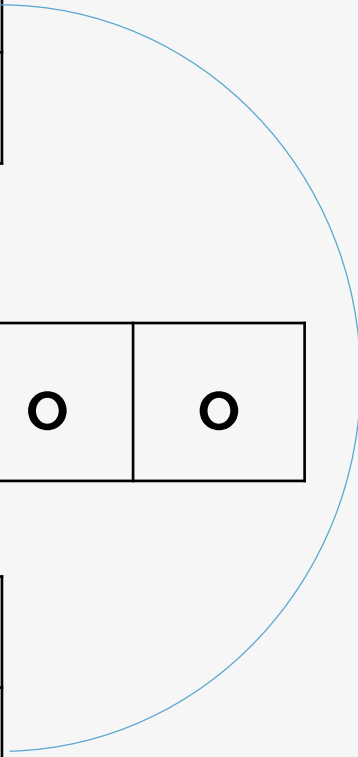
HashMap

b	a	c
---	---	---

a	1
b	1
c	1

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

a	1
c	1
b	1



HashMap

b	a	c
---	---	---

a	1
b	1
c	1

e	i	d	b	a	c	o	o
---	---	---	---	---	---	---	---

a	1
c	1
b	1

