1, 2, 3, 4, 5, 6, 7 ⇒ 5, 6, 7, 1, 2, 3, 4

k = 3

1, 2, 3, 4

k = k % n

5 % 4

1

1, 2, 3, 4, 5, 6, 7

n-k k

4, 3, 2, 1, 7, 6, 5

5, 6, 7, 1, 2, 3, 4

Constraints

TLE

1 ≤ n ≤ 100

O(n)

O(n²)

10000

≤ 10⁸

100

$O(n \times k) \geq 10^8$

"1234"

s = "hello world"

C/C++ — Mutable

Java, JS, Py — Immutable

s[2] = 'P' ✗

[2, 3, 5, 9, 12, 55, 42]

arr.slice(start idx, end idx) ≥ start < end

(3, 5) TC → O(n)

Substring vs Subsequence

"hello world"

h l o _ w r d

"hello"

"hello world"

Prefix vs Suffix

Prefix	Suffix
h	d
he	ld
hel	rld
hell	orld
hello	

"today is Saturday" → identify start of a new word 2.

"Today Is Saturday" → capitalize a letter?

→ after space
→ after full stop
→ i==0

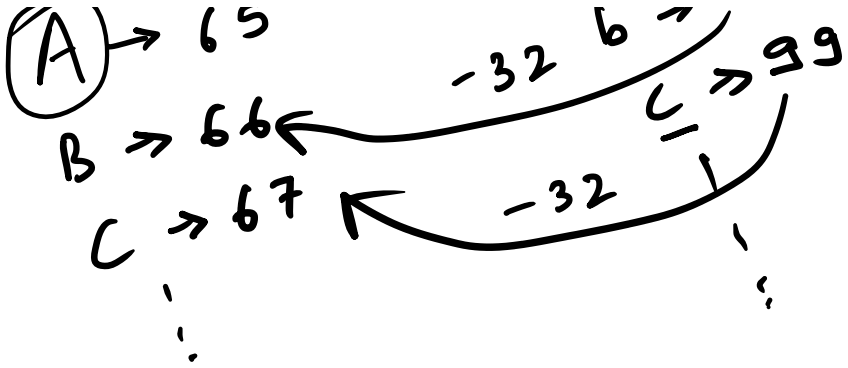
ASCII values

A → 65 (-32) a → 97

b → 98 (-32) → 99

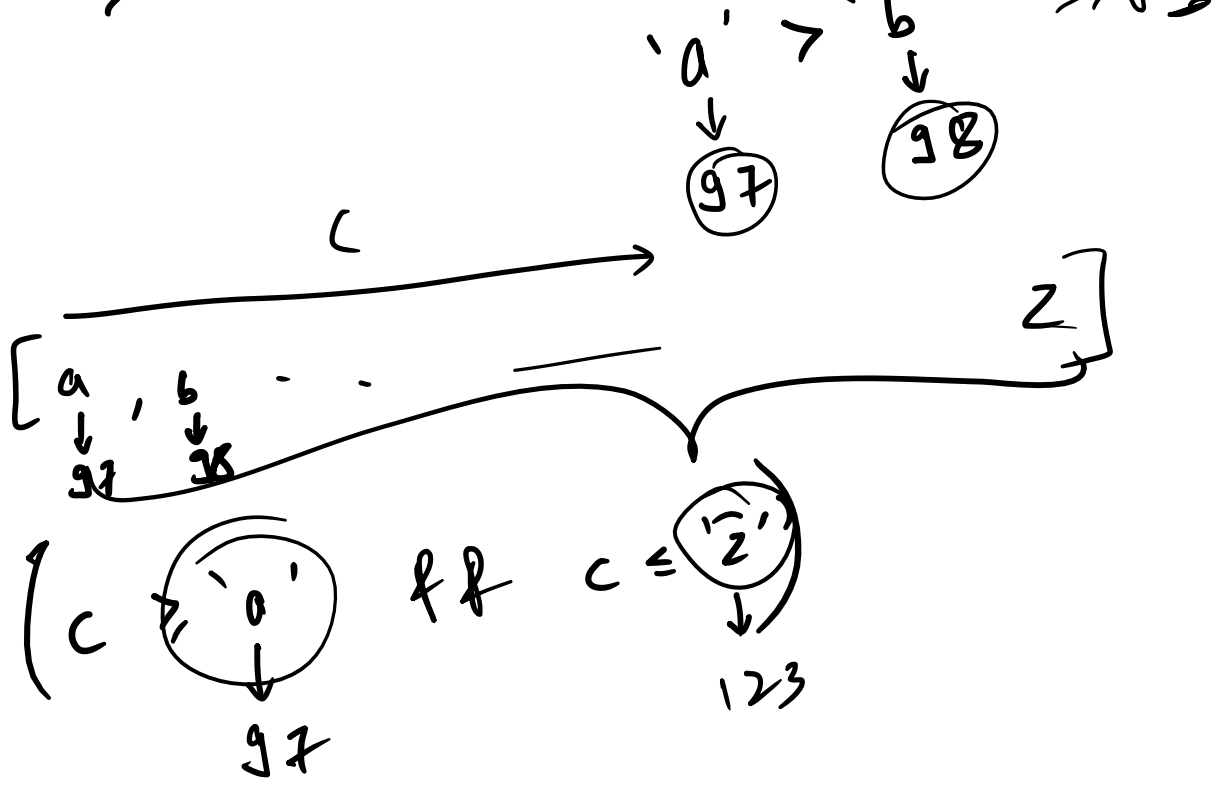
'0' → 48

'1' → 49



>= <

'a' > 'b' → false



Binary Search

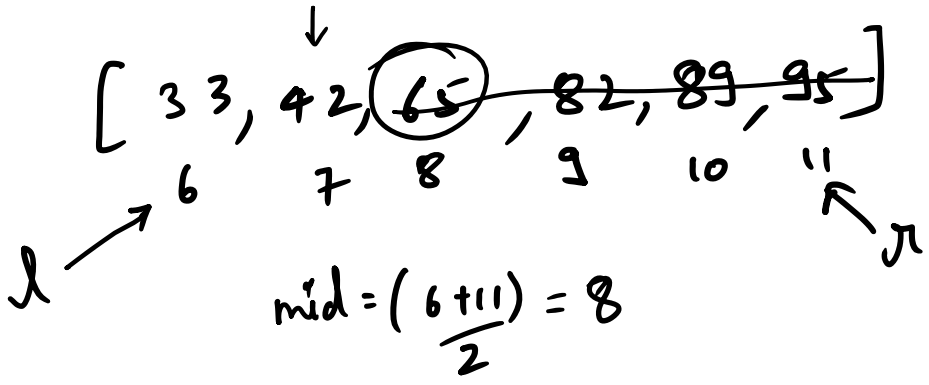
→ sorted

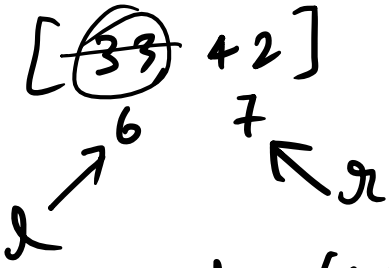
x = 42

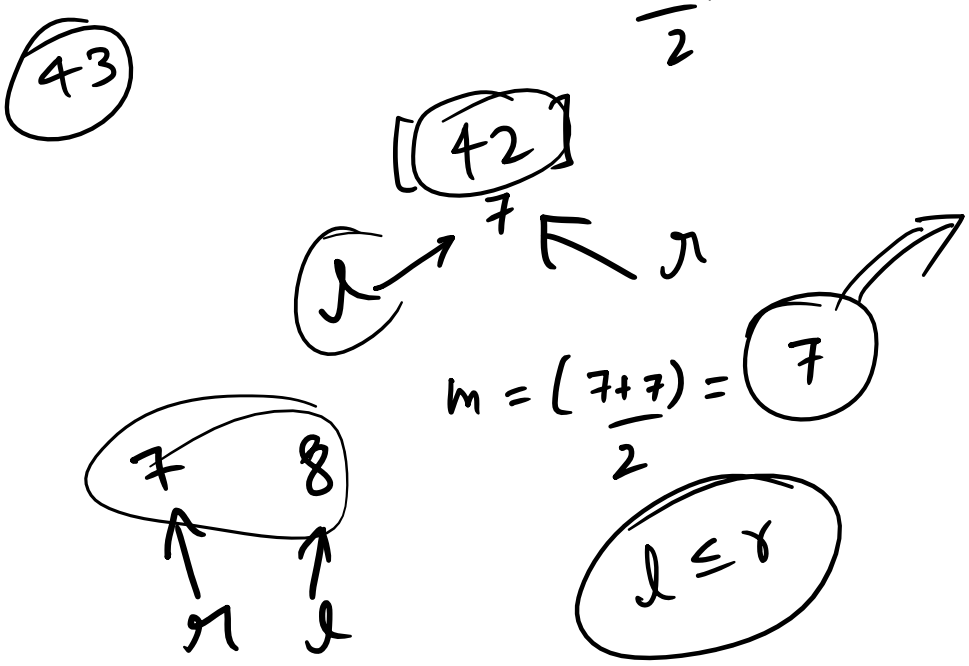
0	1	2	3	4	5	6	7	8	9	10	11
2	5	9	12	15	20	33	42	65	82	83	95

l = 0, r = 11

mid = (l+r)/2 = (0+11)/2 = 5


33, 42, 65, 82, 89, 95
6 7 8 9 10 11
l
r
mid = (6+11)/2 = 8


33 42
6 7
l
r
mid = (6+7)/2 = 6


43
42
7
l
r
m = (7+7)/2 = 7
7 8
r l
l ≤ r