The Onene Data Structure: {First In First Out}

Implementation using array: > Two indexes -> front & rese

removal => 2 3 4 5

removal => 2 3 4 5

removal + Two indexes -> front & rese

* Can take a var (MAX-S12E)

to control capacity

front ++ rese ++

The indexes -> front & rese

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I = real = -1. \bigcirc Case: -> Empty Queue -> front dingle Element -> front = real = 0. - dequene aro(front] -) FE Remove -> front++ arr[red] -> real++ arr[red] -> RE -) enquere Can we coeste object of an NXI Herfael 100%. alsstrækin Can we extend multiple (10) clemes in Java? Diamond Problem: > GP — Animal _ makesound(); Ly Meow! 4 Child \times Generate Binary from 1 to N vairg a Oneve. $(N=5) \rightarrow 1,10,11,100,101$ * Constraints: The data need not be integer only.

But, the output should be in this given formet.

Input N = 5

"1", "10", "11", "100"

Onerre -> ["1"] Write (N--> 0)

I am Pop "1" Print -> Push "10", "11" -> Queue ("10" Sty2: Polo (10) Print -> Puch " 100", "101" -> Onene ["IX", ("00") (stups: Pof "!!" Boint -> Punh" "110", ""!!") 75 tep 4: Pop" 101" Point Puly 1000, 1001 [100, 101]
810 5. Pop" 101" Point Puly 1010, 1011 110, 111] Parkage: java. util Collections Framework In Java: [Built-in Data Structures in Java] ② Set (Interface) (enum) DList (Interface) -) (Hashing) L) Hash Set -) Array List - Linked Hash Set L) Tree Set -> Stack (extends Vector) (4) Map < x, v > (Interface) 3) Queue (Interface)/DeQué) - Priority Ovene (Heat)
Linked List L7 Hash Map L) Linked Hash Map Arroy Degre (implements Degre) L) Tree Mab (Binary Tru) TST, Heaps) which Hash Table XXXX Trie Properties (extend HT -> Properties (extend HT) * Generic Quene < T> \neq Ovene \rightarrow reversal \rightarrow Stock $\stackrel{9}{\downarrow}$ $\stackrel{9}{\downarrow}$ $\stackrel{1}{\downarrow}$ $\stackrel{1}{\downarrow}$ Feedback: 14107

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