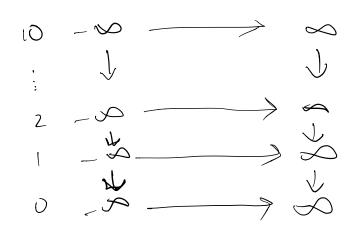
: Vector a list < Node > > Node & int value

[ist c Node): iterator down why? Node - int to store value - iterator to make vertical connections List - Doubly Linked List · Easy to access and insert/delete elements Vector - Good Continer because of random access Tip#1: make parameterized constructor for Node Tip#2: there is no Default value for an iterator





1. push-back an empty list < Node? to vector

Za push-back two nodes - or and or bottom row

26. You can use a set size skip list so

I use for loop to make other levels

**X If you are going to use a set size,

I recommend using \$\ge\$ 10 because there is

less than 0.1% chance it will get that high 2 start at 1 not 0 Roint to list before for (; = 1 ; c size ...) - posh back emply list to vector V -Push-back (Node (-inf, vec [i-1). beg:n Cs)) e.g. i=1 1 -8 - pust-back (Node (inf, -- vec[i-1].end ())) points to 1 before end (points to lost element)

Just - the way I did insert is top down that! why I only use one iterator

1. Use coin flip (random-number generator) to find heads/tails keep local int to keep track of what level to start inserting on

2. Use 2 local list (Node) thronton

- one for traversing the list

- one to help make "vertical" connections

(list ander: iterator it = vec[level] hegin()

list ahode si iterator temp = vec[level] end()

Set at end so you do not accidentally change or modify Nodes in list

Example: < 9 HT

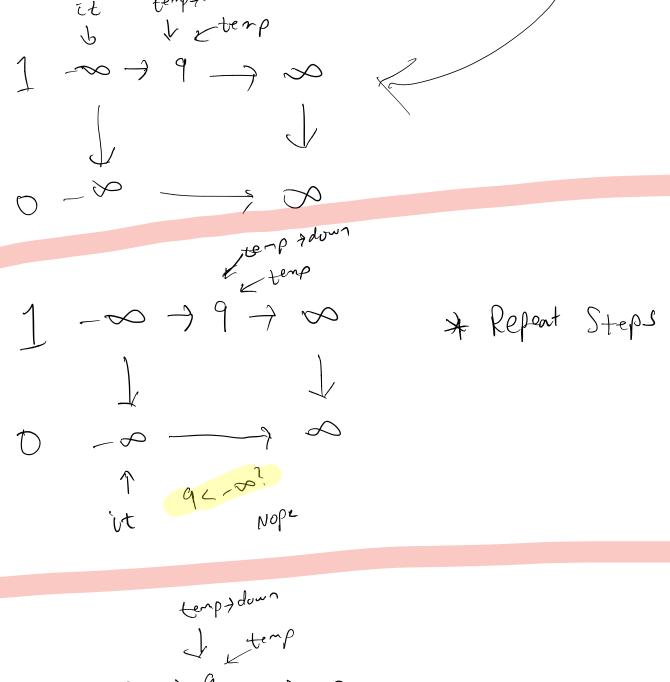
No so Increment it

0 - \$ - \$ \$

Yes so insert before on

and point it to value being inserted

1 - 00 -> 04 -> 00 * Don't Forget temp is list (Node > :: teator So you have access to the data renber of the Nocle as well it terp y down $1 \longrightarrow \uparrow \uparrow \longrightarrow \downarrow$ of point temp's "down" iterator to it it temp Idown ox point temp to it 20 of move it to next level (go left) - decrenent it - point it to "it I down" (go down) 1 man John



*Set temp?down

to it to make

vertical connection

* temp is 9[1]

So temp?down

is 9[1] pointing

to 9[0]

End product $1 - \infty \rightarrow 9 \rightarrow \infty$ it at end because bottom oran $0 \rightarrow 0 \rightarrow 9 \rightarrow 0$ bottom oran $0 \rightarrow 0 \rightarrow 0 \rightarrow 0$ temp-down it there