Whiteboard 14

WHITE BOARD14 Find a stack's maximum value

Visual peek to awent if stakment for Changes orignal m Stack make sure stack 15aswas (3) 8 is aneith rappuramin Dackton Stack

Agloritm make sure stak isn't empty establish a current max int = \$\phi\$ to compare sour against saphymax 3) create ausuile 100P as long as stack 4) use a templaloe int to hold stack pop value compare template to mox value using Math.mox

Fush the value into the Jump Stack

Trade a second unile woop to recreate original stack who while temps stack!

Temps stack!

Empty Statement

6 Peturn Mox value

Test Cascs
emply stack
simple stack
soth stack of valoradackly
one chaining 1st Max

Code public class Maxim Stack &

public class Mox Stack extends Stack & MwxStack<Integer> COPY Stack = New MaxStack<>L); int mox= Ø; publicint max() { if (stack is supply) &
3 resurn \$5;

while (!stack.is Empty) &
int templaloe = stack.pop(); mox = Moth. mox (temp value, copy stack. push/templake); mox); 5 While (! copy stack is Empty)? Stack. push (sop stack poper); 3 return mox;