## WHITE BONED13

lake a string as only argument into a bookean method. The string takes braces & 3, bracketst Jand parenths + other charaters and returns true if each bracket type is valanced in agiven String, i.e. a (has a) somewhere in the saring. Besure to include 3 tests per method. Visual

if take in a Stack opp & store value doesn't nous match Keep popping it match neverforme returnfalse else return true

D(n2)time before

O(n2)time before

vefactively Vseu do Code 1) if stack empty south 2) sort existing stack into up to 4 stacks using loop z. Awhile (oringinal stack 7:26 >0) 2.A(if("3"=="3"(("5"=="3") putin curly Stack 2.A.2 esseifu (" or )" putin parenth Stack

2. A. Bis f (C " or I')
put in bracket Stack 2. All este pot in Aher Stack compare siet Speachstack 3.A.lif curly stack size is divisble by 2 = wm 4 \$ if bracket Stack is divisble by 2= wen 5, if parenths stack is dishible by z = evan and @ best one stack size isn'tryty refurn-tive 3.Bizkeretunfak

So, restorted, take instring En turn strings into stack 3) instactiate stacks · curly Stack foroully · bracket stack foronly · paventh Stackfor only () · other stack for allay other characters Have a sorting method to jostwoods driginal Stack lifnot empty) und fill other stacks

(5) Have a "poir checking" method that sees that @laust one of 4 new stacks size is >0. then checks if any of the Stacks size i fodd return false else vetur M truc

## tests to Consider (1) Empty input Stack 2) Empty stacks for specialty stacks (ie charactersonly) 3) only one speciatry A) Even size-Ine B) Odd Sizefalse Multi specialty Stacks full A) Some Odd Size B) All Odd Size C) None 11

public cluss Bracket Validation & private Stack original. corly . parens; bracket, LL other; C public static bodean moltiBracketValidation (swing input) § original = (stack) input; bracket Sort (orginal);

3

public Dodean bracket Sort (Stark original) {

jut size = original. or zer);

if ( 5-30 = = 0) { resurn false; while ( size > 0) & String temp = original. pop; if (temp = = "&" 11 temp = = ~3") § curly. push (temp); 3 else if (temp == [" () } temp == " () ? bracket. push (temp), 3 else if (temp == "("11 temp ==">" ? parenths.push(temp); 3 ettlemp!="c" \$ \$ temp! => 1 +4 temp!="]" } & temp! = " [" = 3 temp!= 3") 3 other. push Ctemp if (curly massored () == true \$ 2 bracket mother == true 33 parenells. matcheds = troe)3

retun true. 3 close ? velvnn false, public honlean matched 3 boton Curly size = (curly. size %2 ==0), boden bracket øsze = ( Wacket sige %2=0)°, poolen parudusize (pavente. size %? urvile (matchedfiks) 3

1 end program