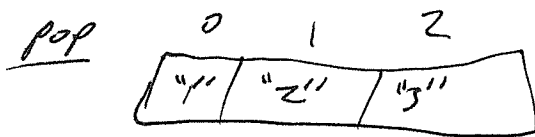


slide 4

	stack	pop	pop	push(21)	peek
Top	17	returns 17	returns 13		
	13	13		21	returns 21
Bottom	28	28	28	28	stack stays the same

When writing Array Pure Stack



Size = 3

stack.pop() → "3"      return data[2] → "3"

- means returning index 2
- must decrement first
- index 2 is now "unallocated" even though data is in there
- it will be forgotten about / overwritten

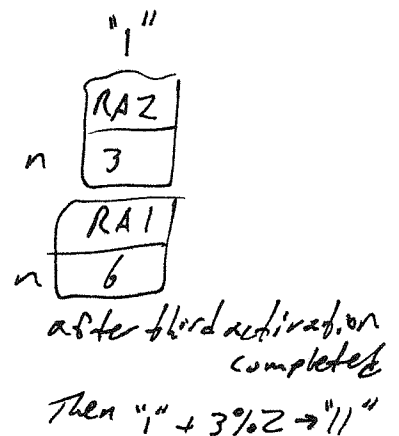
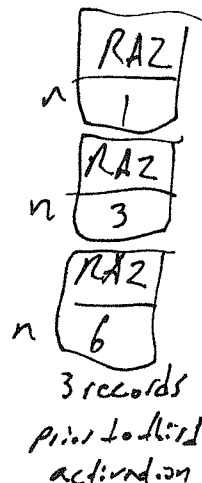
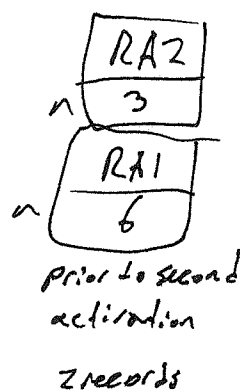
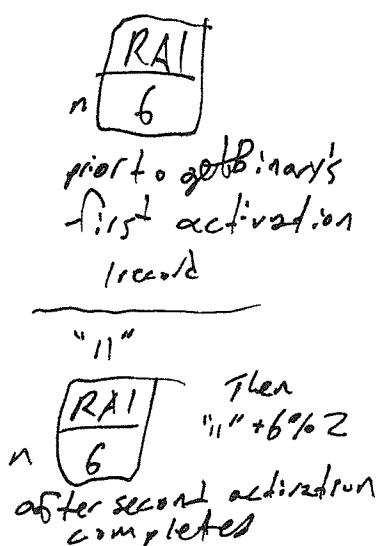
Implementing Recursion

getBinary.java

getBinary(int n)

1. n is only local variable
2. activation record will have return address, value of n
3. string returned is pushed onto stack just before return is made

n = 6



→ "110"  
 after completion of first activation

# getBinary Iterative

myStack

n

n > 1

~~0~~  
~~1~~  
!

~~0~~

T

~~1~~

T

1

F

Return "110"