Tracing with the Heap

1) Sciotch	Stack	Heap
	Main 1] a_list	3/1, 2, 3/47
	b-1ist	一 [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] [
	templist item = x 23	1, 13, 6
	9	9
		V
Printed Output [1,-7, 3, 47]	Then	e is no elegant
[1,-7,3,47]	in the heap. Just make	
[2,4,6]	clear	what is happen.
	Values	an always rewritte

Heap Stack 15nail" mair2 > 1: rat', 2: dot, a-dict 34: 'fish' } item = X 2 34 2 31: 'cat!!' } 2: 'day!!' }

34: fish!!' } { 1: cat, 2: snail, 34: fish, 100: pis'} Note: item loges } 1: 'cat', 2: Snail', 34: fish', 100: pis'} orn the keys of a-diet \[ \langle \la

Scrotch Stark | Ideap

main 3 |

a - str = 'bye'

b - str = 'bye 'bye z'

temp - str = x' bt' 'bty!' 'b!y!c!'

item = 'b' 'y' 'c'

here

bye byez b!y!e!

It is worth your time to think carefully about \$1-43.

Heap Scrotch Stack maint \* { 'Semc': 23, 7 Ferrer': 17, 'Wilson': 77 } sum | = 10 23 35 key = 'Seme' Ferrer' 35 { 'Semé: 23, 'Ferrei': 12, 'Wilson': 0}

5	E.	
Scratch	Stevele	Hap
	main 5  a-list	3, 8, 9] 3
len(lst)=4  Cen(s)=4	92   1st - 5 = 'exam' 2' = 9 x Z B 4 Chas = 'k' 'X' 'k' 'm'	
	9'   S = 'E'	Obtice that 92 does not print or return anything
	g1 ς='χ'	
	S='xx' 1500'  S='xw'  []	
[1,1,3		