

Problem Set 6, Problems 0, 1, and 2

Problem 0: Reading and response

Put your response to the reading below.

1. I feel neutral about computational models because I see pros and cons of them. As two articles mention, sometimes computational models cannot measure comprehensively. For instance, they cannot predict in the long term or they do not combine human's reactions. In fact, we should admit that the real world is always more complicated than the computer models assume, and it is true that not all situations can fit in those models and models can definitely predict everything. However, I do think computational models could give some suggestions to human beings. For example, in the second passage, it reminds people we face a novel but challenging environment.

Problem 1: Tracing function calls

global variables

a	b	c
3	5	2

foo's local variables

a	b	c
2	3	5
6		15
19		

bar's local variables

a	c	b
15	6	9
		19

mystery's local variables

c	a
15	18
15	9
6	9
6	10

output (the lines printed by the program)

3 5 2

foo 6 3 15

bar 15 9 6

foo 19 3 5

3 15 2

Problem 2: Understanding loops

2-1)

i	values[i]	values[i-1]	count
-	-	-	0
0	4	1	0
1	7	4	0
2	3	7	1
3	5	3	1
4	8	5	1
5	1	8	2

return value = 2

2-2)

a	b	value printed
8	3	8 3
5	2	7
3	1	4
2	0	2