

Problem Set 6, Problems 0, 1, and 2

Problem 0: Reading and response

Put your response to the reading below.

- 1. Computational models could help the society especially in fields of science, like calculating the power of burning fuel or predicting the climate in the future, which could be computed in a relatively fixed method. However, it could hardly predict the long-term trend of economics, because the economic situations are based on humans' decisions which could be influenced by many subjective factors, and it could not be calculated using formulas or theories. I think the computational models could only be considered as the analysis of a common situation. The reality is various, and we need to make decisions depending on the facts.*

Problem 1: Tracing function calls

global variables

a	b	c
3	5	2
3	15	2

foo's local variables

a	b	c
2	3	5
6	3	15
19	3	15

bar's local variables

a	c	b
15	6	9
15	6	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 15

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