

Problem Set 1, Problems 0 and 1

Problem 0: Reading and response

Put your response to the reading below.

I agree with the passage's point. It is true that models could be very helpful sometimes, since it is based on previous experiences and collections. However, I do think people should never quit. In order to pursue a new era and a better future, it is better to keep trying.

Problem 1: Statements, expressions and conditional execution

1-1. Tracing a simple program

line of code	x	y	z
x = 11	11		
y = 5	11	5	
x = x + 6	17	5	
z = y + x	17	5	22
x = x // 7	2	5	22
y = z % 3	2	1	22

1-2. Assignment statements and expressions

a) $a = a + 5$

b) $b = b ** a$

c) $b = a / 3$

d) $a == 2 + 3 * b$

e) $a \% 3 == 0$

f)(a < 6) or (a > 16)

1-3. Conditional execution: Calls to the function `mystery()`

function call	output
a. <code>mystery([3, 3, 3])</code>	mow dow row
b. <code>mystery([3, 4, 5])</code>	tow row
c. <code>mystery([5, 3, 2])</code>	mow row
d. <code>mystery([5, 5, 7])</code>	now how row
e. <code>mystery([6, 4, 6])</code>	bow row