1. Your roommate asked you to arrange the rack of cooking spices in the kitchen. Would the task “Arrange spice rack” be a valid operation in an algorithm? If not, indicate which required property of an algorithm is not satisfied.

2. Write (in the box) the value of $x$ after the code below executes?

```python
z = 2
y = 1
z + y
x = y - z
# x = 2 * x
x = 2 * x
```

3. Evaluate the following expressions and indicate if an error would occur, or if it is a valid Python expression, indicate what the value would be. Make the type of any values clear by showing quotes or decimal portions as relevant.

(a) $8/3$

(b) "3"+"2"+"1"

(c) 1.0+"2.0"
Numeric Operators
+ , - , / , *: Addition, subtraction, division, multiplication
//: Floor division: Round division result down to nearest whole number
%: Modulus: Evaluate to remainder of division

Strings
- The following functions are built-in
  - `len(string)`: Returns the number of characters in the string
  - `int(string), float(string)`: Converts numeric string to int or float
  - `str(object)`: Converts object, e.g. int or float, to a string
- String operators
  - `string1 + string2`: Returns a new string that is the concatenation of string1 and string2
  - `string * int`: Returns a new string that is string repeated int times