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Cohort:	- CANCES - NO. 15	

An abstraction of a book used by a book retailer has three properties: Title, Author, and Price. Using this abstraction some books in the retailer's inventory are shown below. Use this example data to help create and test the algorithms developed below.

In developing the code-like form of the algorithm use

for each book [statements]

to represent a "for each" iteration that performs the statements for each book.

+410101

Title	Author	Price
"Harry Potter: Deathly Hallows"	J K Rowling	\$10
"The Hunger Games"	Suzanne Collins	\$10
"War and Peace"	Leo Tolstoy	\$20
"Romeo and Juliette"	William Shakespeare	\$5
"Fahrenheit 451"	Ray Bradbury	\$6
"Dracula"	Bram Stoker	\$4
"The Lord of the Rings"	J R Tolkein	\$30
"The Hobbit"	J R. Tolkein	\$7
"Computational Thinking"	Dennis Kafura	\$0
"Oh The Places You'll Go"	Dr. Seuss	\$3
"Mother Goose Rhymes"	Mother Goose	\$5
"The Odyssey"	Homer	\$8
"Introduction to Chemistry"	Bill Billington	\$147
"Treasure Island"	Robert Louis Stevenson	\$5
"The Chronicles of Narnia"	C.S. Lewis	\$6

$$tp = 0$$

$$tp = tp + 10$$

$$10 = 10 + 10$$

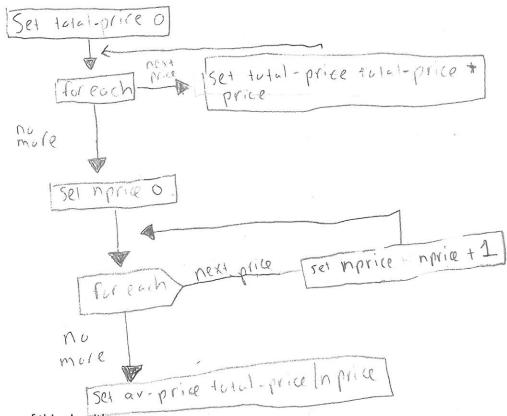
$$20 = 20 + 20$$

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Cohort:	

1. We are doing inventory. What's the average price of our books?

a) Write the flowchart of an algorithm to find the average price of books.



b) Write the code-like form of this algorithm.

Set total-price 0

for each price [

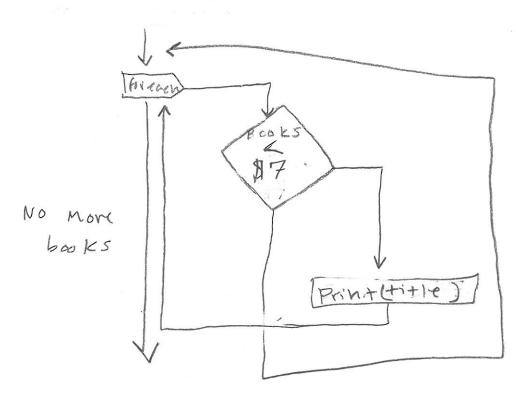
set total-price total-price + price

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Cohort:	į.	

2. We want to know all of our cheap books. Output any books with a price below \$7.

a) Write the flowchart of an algorithm to find the cheap books. When you find a cheap book use "print(Title)" to output the current book's title.



Cohort:	2	
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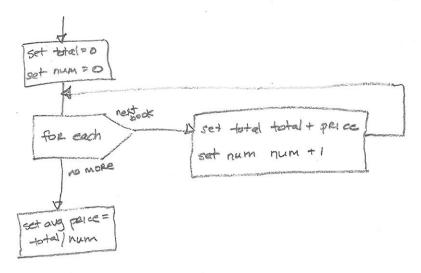
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Cohort: 2

1. We are doing inventory. What's the average price of our books?

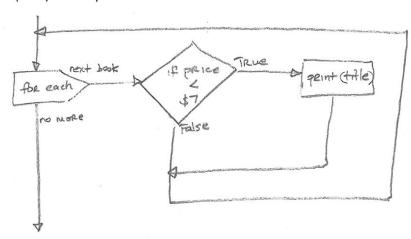
a) Write the flowchart of an algorithm to find the average price of books.



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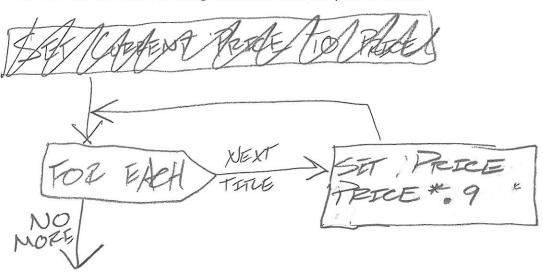
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Cohort:

2. We want to put our books on sale. Reduce the price of all books by 10%.

a) Write the flowchart of an algorithm to reduce the price of books.



	2	
Cohort:		

- 1. We are doing inventory. What's the average price of our books?
- a) Write the flowchart of an algorithm to find the average price of books.

SET TOTAL PRICE O	
AND TOTAL TITLES CO	
FOR EACH NEXT TITLE	SET TOTAL-PRICE TOTAL PRICE + PRICE
	TOTH TITLES +1
No Nork	
BY TOTAL -TITLES	

b) Write the code-like form of this algorithm.

and set total titles to 0
for each book [
set total price |
total price |
and set total titles
total titles + 1

[pivide total price
by total-titles]

	11	
Cohort:	9	

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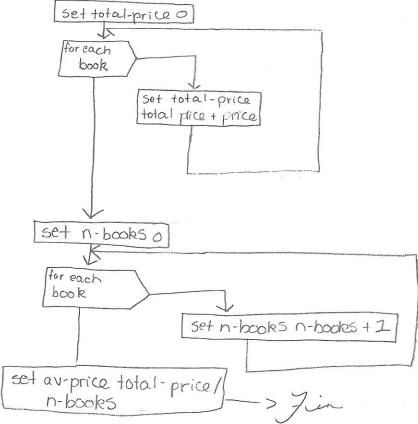
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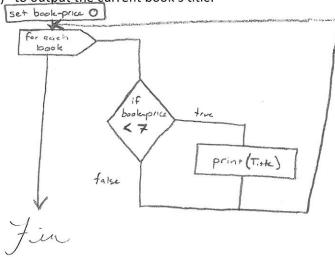
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b) Write the code-like form of this algorithm.

set book-Price O
For Each [
if Book-Price < .75

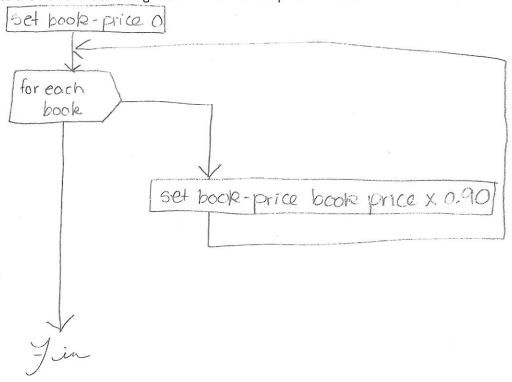
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Evid

Cohort:

2. We want to put our books on sale. Reduce the price of all books by 10%.

a) Write the flowchart of an algorithm to reduce the price of books.



b) Write the code-like form of this algorithm.

For each book [

set book-price book-price x 0.90

]

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Cohort:		

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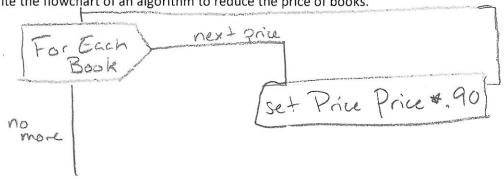
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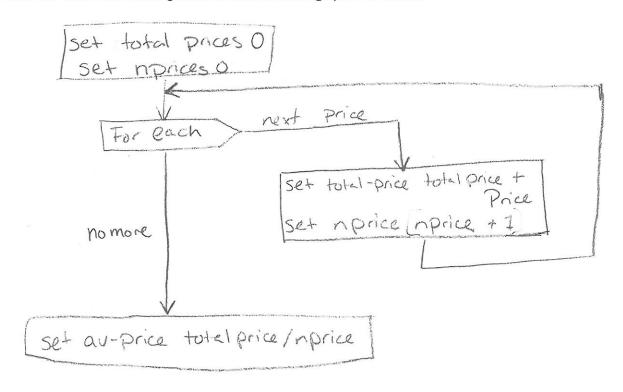
For Each Book [

set Price Price*.90

Cohort: _____5

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Cohort:	(1/	
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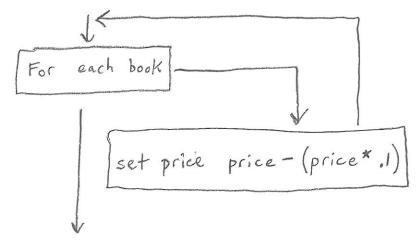
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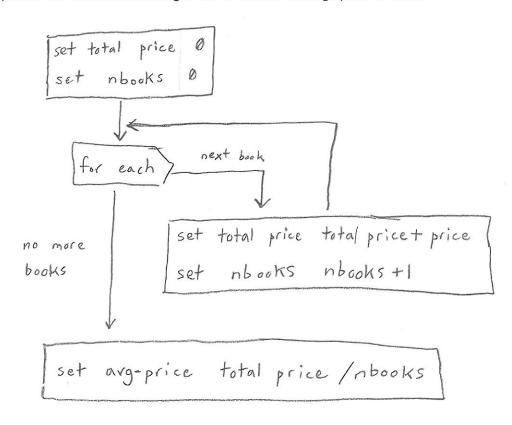


no more books

Cohort:

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Cohort:	-1	
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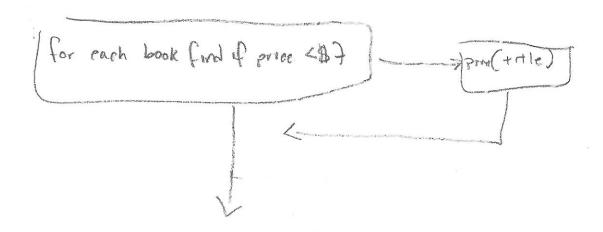
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