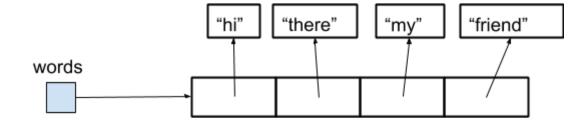
CSSE 120	Session 10: Sequences			Page 1 of 1		
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## You are given the list of words represented by this box and pointer diagram:



1. What does the following statement cause to be displayed? print(words[0]) hi

2. Write a line of code that sets the variable **x** to the string "friend", using the words list.

```
x = words[3]
```

3. Write a line of code that replaces the string "my" in the words list by the string "her".

```
words[2] = "her"
```

4. What happens if we try to print words[4]? Why?

```
The program "throws an Exception" at that point of the run, causing it to crash with an error message:
```

IndexError: list index out of range

```
This happens because the list has only 4 items in it, numbered 0 1 2 3, so the item at position (index) 4 is past the end of the list.
```

[Grader: anything like "crashes because past the end of the list" is enough for full credit.]

In the following problems, assume that you are given a long sequence called things.

- 5. Write a line of code that prints the number of items in *things*. print(len(things))
- 6. Write a line of code that prints the last item in *things*.

```
print( things[len(things) - 1] )
```

- 7. Write code to print all of the items in *things*, each on their own line.
- 8. Explain what this code prints (assuming that *nums* is a sequence of numbers):

```
total = 0
for k in range(0, len(nums), 2):
    total = total + nums[k]
print(total)
```

It prints the sum of all the numbers in the sequence that are at even-numbered indices (positions).