

What would the sprite say for each of the following examples?

1.

```
set index to 1
repeat 5
  say index
  change index by 1
```

2.

```
set index to 5
repeat 5
  say index
  change index by -1
```

3.

```
set index to 2
repeat 5
  say index
  change index by 2
```

4.

```
set index to length of animals
repeat length of animals
  say item index of animals
  change index by -1
```

5.

```
set index to 1
repeat length of animals
  say item index of animals
  change index by 1
```

6.

```
set index to 1
repeat length of animals / 2
  say item index of animals
  change index by 2
```

animals	
1	Cat
2	Dog
3	Bear
4	Cow

+ length: 4

7.

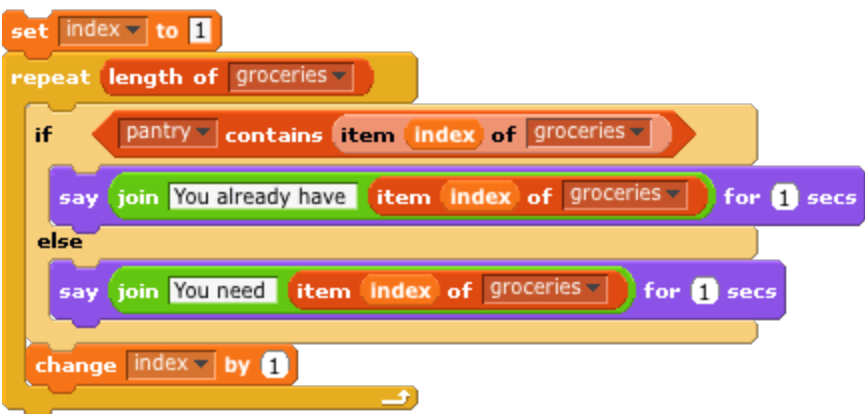


```

set index to 1
set in stock to 0
repeat length of groceries
  if pantry contains item index of groceries
    change in stock by 1
  change index by 1
say in stock for 1 secs

```

8.



```

set index to 1
repeat length of groceries
  if pantry contains item index of groceries
    say join You already have item index of groceries for 1 secs
  else
    say join You need item index of groceries for 1 secs
  change index by 1

```

groceries

- 1 Milk
- 2 Eggs
- 3 Bread
- 4 Cereal
- 5 Jam
- 6 Peanut Butter

+ length: 6

pantry

- 1 Peanut Butter
- 2 Milk
- 3 Jam

+ length: 3

Pseudocode

1. Write pseudocode for a function that takes a list of numbers and reports the sum.
2. Write pseudocode for a function that takes a list of numbers and reports the smallest number.
3. Rewrite the pseudocode from the previous problem, but report the **index** of the smallest number.
4. Write pseudocode for a function that takes number and reports a list of numbers from 1 to that number. For example, if the function was passed 6, it would report the list [1,2,3,4,5,6]
5. Write pseudocode for a function that takes a starting number, x, and a length, y, and reports a list of numbers from x to x+y. For example, if the function was passed 2 and 5, it would report the list [2,3,4,5,6].
6. Write pseudocode for the “find index of [item] in [list]” function. The function takes two parameters, an string and a list. It should return the index of the item in the list. For example, if the item is “A” and the list is [C, A, B], the function should return 2.