

# Lists and Co.

## Domain and Range

(a) Determine the domain and range of the following Snap! blocks.

Domain: \_\_\_\_\_, \_\_\_\_\_

Range: \_\_\_\_\_



Domain of Foo: \_\_\_\_\_

Range of Foo: \_\_\_\_\_

Type of Bar: \_\_\_\_\_



(b) Fill in the information table for the Higher Order Functions.

Higher Order Function	Domain	Range	Notes

### Input Function

	Type	Domain	Range
map			
keep			
combine			

## Higher Order Functions (HOFs)

- (a) Fill in the blanks so that the HOF reports a list of the odd numbers in `MyList`.

```
MyList = list(3, 7, 8, 10, 4, 7)
```

Keep items such that `<_____>` from `(_____)`

- (b) Write an expression that reports the sum of the squares of the numbers in `YourList`.

```
YourList = list(4, 2, 3, 1)
```

---

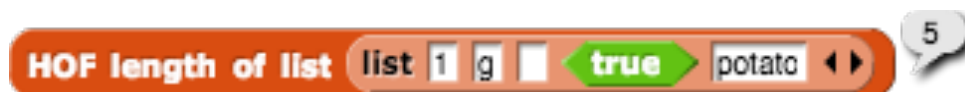
---

- (c) Describe the output of the following code.



---

- (d) Find the length of a list using HOFs. You are not allowed to use the “length of list” default block.



---

---