Lists and HOFs

(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.

<table>
<thead>
<tr>
<th>Higher Order Function</th>
<th>Domain</th>
<th>Range</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>map</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>keep</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>combine</td>
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</tbody>
</table>

(c) Fill in the blanks so that Keep reports a list of the numbers from MyList.

MyList = list(3, hello, 8, goodbye, 4, 7)
Keep items such that (__________________) from (____)
(d) Write an expression that reports the sum of the squares of the numbers in YourList.

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

(e) Complete the following block so that it works as described.

(f) Describe the output of the following code. OurList is a list of words.

Challenge Problem

(a) Given a list of salaries, some of which go into the millions, return the salary of the lowest-paid millionaire. You are allowed to use a helper block that takes two numbers as inputs and reports the minimum of the two numbers.