

CS 1520
Recitation 11
Date: 30th November, 2018

```
iceCreams = [  
  { flavor: 'pineapple', color: 'white', price: 1 },  
  { flavor: 'strawberry', color: 'red', price: 2 },  
  { flavor: 'watermelon', color: 'red', price: 3 },  
  { flavor: 'kiwi', color: 'green', price: 4 },  
  { flavor: 'mango', color: 'yellow', price: 5 },  
  { flavor: 'pear', color: 'green', price: 6 }  
];
```

1. Use the **filter** method to create a new array with only red colored ice cream.
Remember, filter creates a new array

JS:

Python:

2. Use **map** method to create a new array of strings, with all the flavors of ice cream.

JS:

Python:

3. Use **reduce** method to calculate the average price of the flavors.

JS:

Python:

4. Use **map** and **reduce** to calculate the increasing sums (prefix sums) of the flavor prices. That is, given the iceCreams, calculate and return the following list:

[1, 3, 6, 10, 15, 21]

You only need one line to do this!

JS:

Python:

(Use **enumerate** function to get the indices)