

# Assignment

## Loops

### Problem 1: Is number in list?

Write a function that checks if a number `n` is in a list `lst`

```
def is_in_list(n, lst):  
    # your code here  
    return
```

Here is what the output should look like:

```
> is_in_list(5, [1,2,3,4])  
False  
> is_in_list(5, [1,5,6])  
True
```

### Problem 2: Intersection of lists

Write a function intersection that consumes two lists of numbers and produces the list of numbers that are in both lists. For example, [1,2,3] intersected with [2,4,6] will produce [2].

Lists may contain duplicates, but do not have duplicates in your produced lists.

```
def intersection(lst1, lst2):  
    # your code here  
    return
```

Here is what the output should look like:

```
> intersection([1,2,3], [2,4,6])  
[2]  
> intersection([1,2,3], [4,5,6])  
[]  
> intersection([2,3,2,4], [2,2,4])  
[2,4]
```