

### Problem Domain

- Write a function called `insertShiftArray` which takes in an array and a value to be added. Without utilizing any of the built-in methods available to your language, return an array with the new value added at the middle index.

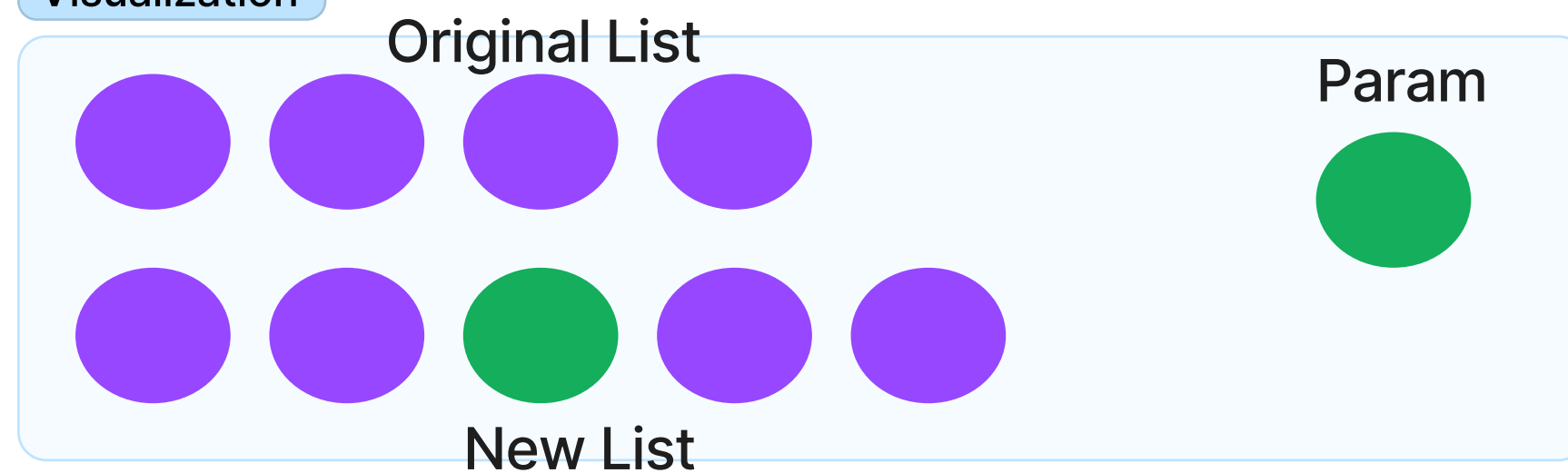
Input: number

Output: number placed in middle of list

### TestCases

1. Check for list and param
2. If list and param, place param in list
3. return original list with new param

### Visualization



### Algorithm

Create a function that accepts a list and a param, and insert the param into the middle of the list

Return the new list

### Big O

Time  $\rightarrow O(n)$  because

Space  $\rightarrow O(1)$

```
1  define insertShiftArray(list, param)
2    list = place param in middle
3    return list
```

### Step Through

List	1	2	4	5	
Param	3				
List	1	2	3	4	5