

# CSC148 Worksheet 2 Solution

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## Question 1

Relevant Property	Values to Try
The position of $\langle n1 \rangle$ in $lst$	front, back, somewhere else
The position of $\langle n1 \rangle$ after insertion	front, back, and somewhere else
• The position of $\langle n2 \rangle$ beside $\langle n1 \rangle$ after insertion	front, back and somewhere else
Size of $lst$	- Size of $lst$ after insertion - Size of list before insertion

### Correct Solution:

Relevant Property	Values to Try
The position of $\langle n1 \rangle$ in $lst$	front, back, somewhere else
Length of list	0,1,'small' value
Number of occurrences of $lst$	0,1,'small' value,every value in $lst$ is $\langle n1 \rangle$
$\langle n1 \rangle == \langle n2 \rangle$	true, false

## Question 2

lst	n1	n2	Purpose
[0, 1, 2, 3]	0	99	<i>n1</i> at the front
[0, 1, 2, 3]	0	99	<i>n1</i> at the back
[0, 1, 2, 3]	3	99	<i>n1</i> at somewhere else
[0, 1, 2, 3]	3	3	< <i>n1</i> > the same as < <i>n2</i> >
[0, 1, 2, 3]	3	4	< <i>n1</i> > not the same as < <i>n2</i> >
• []	3	4	list with length of 0
[1]	3	4	list with length of 1
[1, 2, 3, 5, 6]	3	4	list with length of 'small' value
[1, 5, 6, 7]	3	4	list with 0 occurrences of < <i>n1</i> >
[1, 3, 5, 6]	3	4	list with 1 occurrences of < <i>n1</i> >
[3, 3, 3, 3]	3	4	list with every occurrences of < <i>n1</i> >

## Question 3