

Lab 1 Solution – Kasaine Kipusi, student #500936268

Code for getElem method:

```
getElem: anInteger
    "Get element from arr at index anInteger, wrapping for out-of-bounds
    index."
    "Declare temporary variables for method."
    | end index elem |
    "Assign 'end' the value of the size of 'arr'."
    end := arr size.
    "Assign 'index' the value of the desired index - 1 modulo the size of
    the array - 1."
    "Using modulo gives the desired wrap-around behaviour for out-of-bound
    indexes."
    "Subtracting 1 from 'anInteger' and adding 1 to 'end' accounts for 1-
    based indexing."
    index := (anInteger - 1) \\ end + 1.
    "Assign 'elem' the value of the element at the desired index of 'arr'."
    elem := (arr at: index).
    "Print the desired element to the screen for reference."
    Transcript show: 'Element @ Index '; show: anInteger; show: ': '; show:
    elem; cr.
    "Return the desired element."
    ^ elem.
```

Screenshot of Test Case Output:



