

# Assignment 6

## Exercise 1

We know that  $z$  does not change value, at that the pointer  $w$  points to  $x$  while the pointer  $q$  points to  $y$ . Running through the program on pen and paper we see that  $x$  and  $y$  are assigned the values

$$x = 1, y = 2$$

And the first equation for calculating  $*w(x)$  we get

$$x = 1 + 2 + 2 + 2 = 7$$

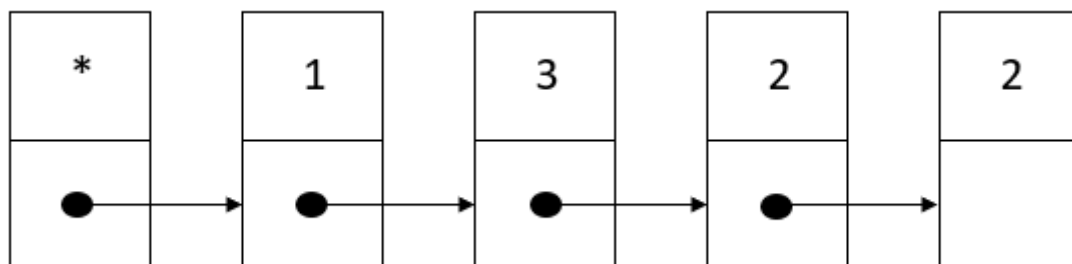
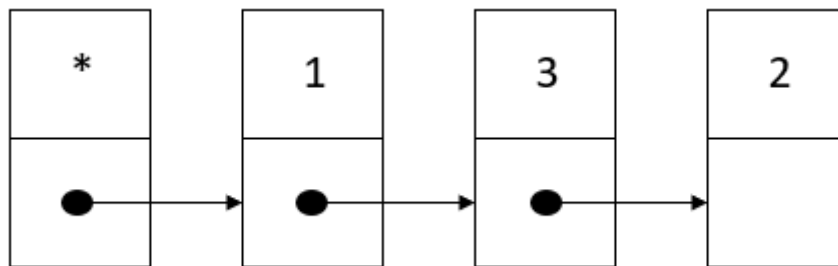
$$y = 7 + 2 + 2 + 7 = 18$$

The program therefore prints:

$$x = 7, y = 18, z = 2$$

## Exercise 3

a)



c)

The code will not fulfill the post-condition as the code will be stuck in the while loop, as we do not change the pointer  $p$ .