

Daniel Østerballe

Opg 1

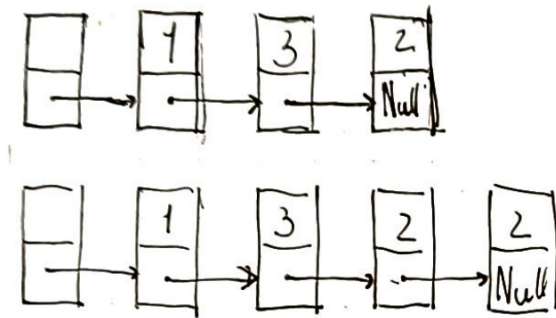
1) What does the program print when executed?

The program prints:

x=7, y=18, z=2

Opg 3

a)



b)

```

int size(node *l){
    // Exercise 3b)
    // Add your code here...
    assert(l!=NULL);
    node *p = l;
    int length = 0;
    while (p->next!=NULL)
        length++;
    return length;
}
  
```

c)

The code will give an error since it will be in the while loop forever.

d)

```

void printout(node *l) {
    /*Exercise 3d) Implement your changes..
    pre: head points to the first, empty element. The last element's next is NULL
    post: the values of the list are printed out*/
    node *p = l->next;
    while (p!=NULL){
        printf("%d, ",p->data);
        p = l->next;
    }
    printf("\n");
}
  
```

e)

```

int largest(node *l){
    /*Exercise 3e) Add your code below.
    pre: head points to the first, empty element. The last element's next is NULL. size(l>0)
    post: returns the largest value of the list*/
    int max;

    node *p = l->next;
    while (p!=NULL){
        if (p->data > max)
            max = p->data;
        p = l->next;
    }

    return max;
}
  
```