

Hand In 6

Link til github:

<https://github.com/285191U013-IPFCE-2021/assignment-6-amandoee>

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Exercise 1

Exercises

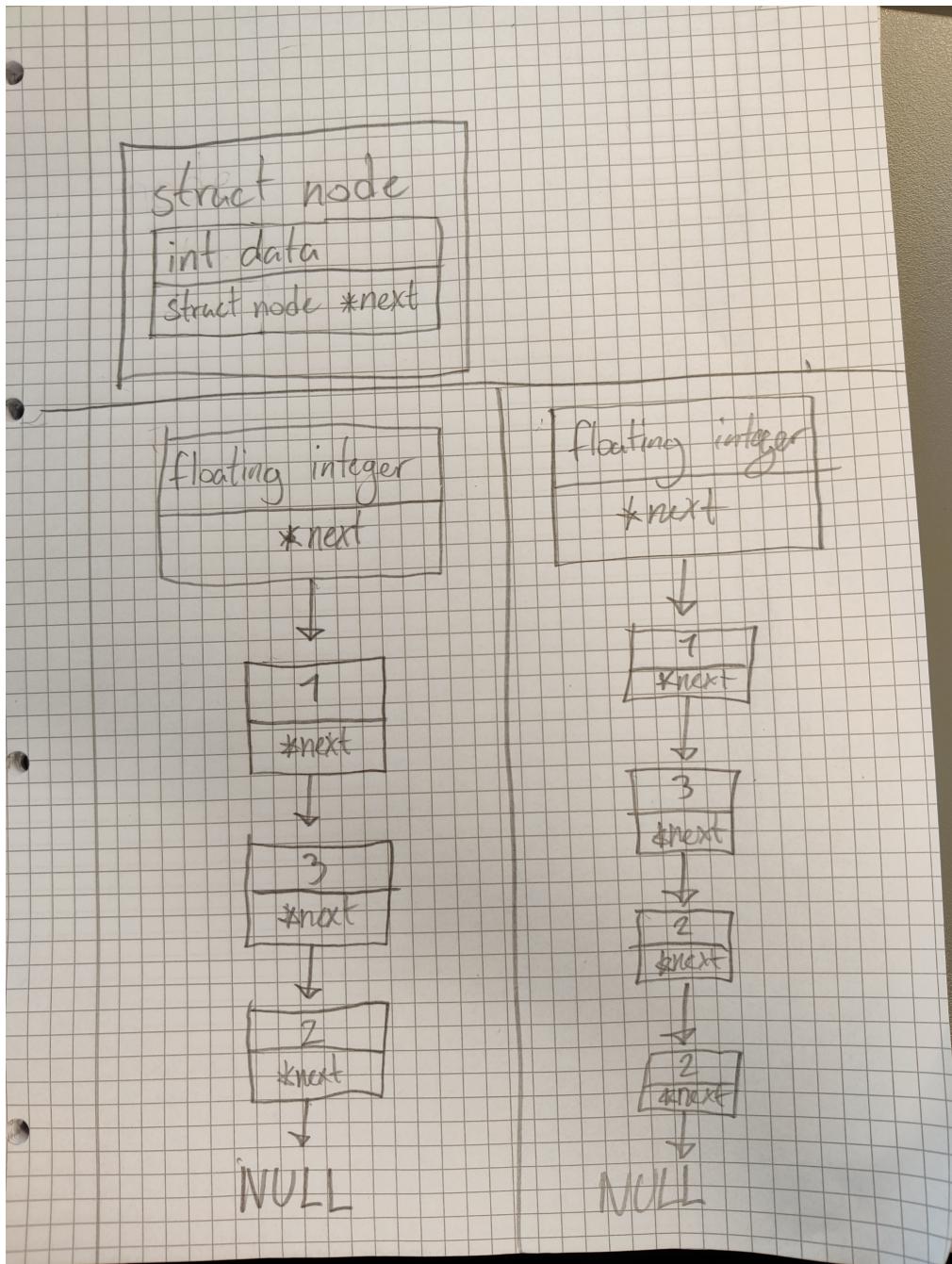
- (1) (Text answer) (old exam question) Consider the following program fragment:

```
1 int x;
2 int y;
3 int z;
4 int* w;
5 int* q;
6 x = 0;
7 y = 1;
8 z = 2;
9 w = &x;
10 q = &y;
11 *w = y;
12 *q = z;
13 *w = x + y + z + *q;
14 *q = x + y + z + *w;
15 printf("x=%d, y=%d, z=%d", x, y, z);
```

What does the program print when it is executed?

Answer: , ,

Exercise 3.a)



Exercise 3.c)

- (c) What does the following code do when executed? (i.e. do the code fulfil the post condition? If not, what happens?)

```
void printout(node *l) {
    /*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);
    }
    printf("\n");
}
```

The following code will result in an infinite loop (unless there are zero elements, causing the function to only print a new line), because the condition ($p \neq \text{NULL}$) will always be true, as p points to the same node: (l and/or p are not redefined).

