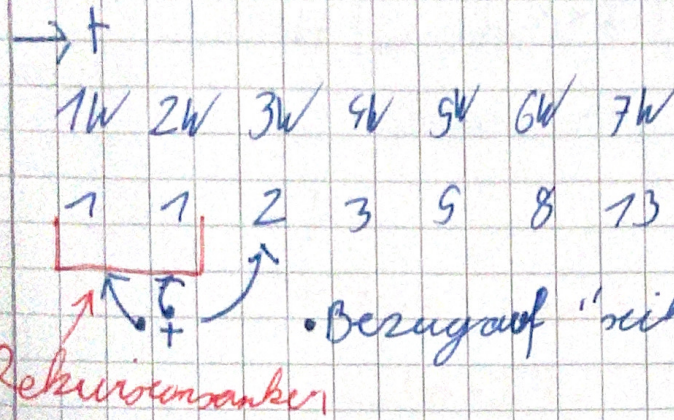
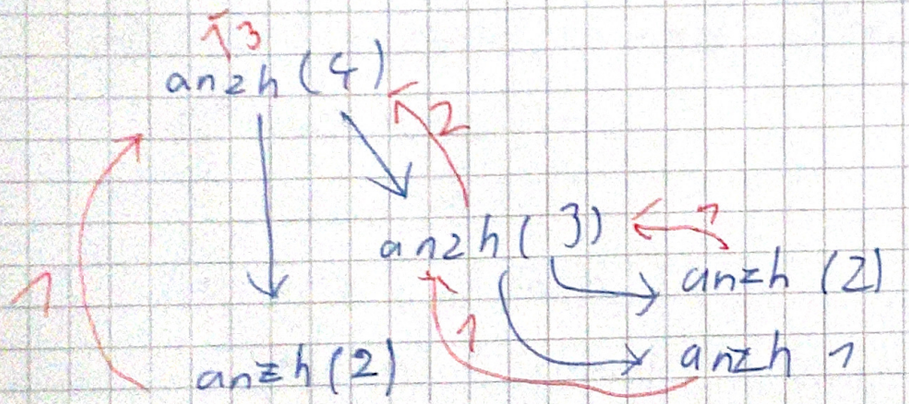



```
int anzahl_Flaeschen (int woche){
    int w_vv = 1;
    int w_v = 1;
    if (woche <=2)
        return 1;
    for (int w = 3; w <= woche; w++) {
        int t = w_v;
        w_v = w_v + w_vv;
        w_vv = t
    }
    return w_v;
}
```

$s \in \mathbb{N}$

```
int anzahl_haeschen (int woche) {
    if (woche <= 2) {
        return 1;
    }
    return anzahl_haeschen (woche - 1) + anzahl_haeschen
    (woche-2);
}
```



$$n! = \underbrace{1 \cdot 2 \cdot 3 \cdot 4 \cdot 5 \cdot \ldots \cdot (n-1)}_{(n-1)!} \cdot n$$

$$n! = (n-1)! \cdot n$$

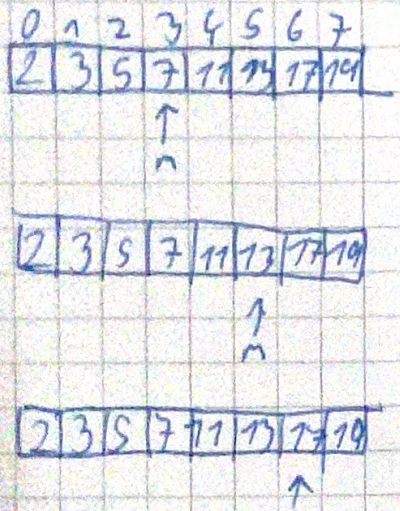
$1! = 1$

```
int fact(int n){
    if (n == 1)
        return 1;
    return fact(n-1) * n;
}
```

fact(4)
4 * fact(3)
3 * fact(2)
2 * fact(1)
1

SEN

Binäre Suche




```
int search(int element, int *a, int low, int high){
    if(low > high)
        return -1;
    int m = (low + high)/2;
    if(*(a+m) == element)
        return m;
    if(element < *(a+m)){
        return search(element, a, low, m-1);
    }else{
        return search(element, a, m+1, high);
    }
}
```