

Fibonacci Zahlen

Thursday, December 9, 2021

2:24 PM

n	1	2	3	4	5	6	7	8	9	10
f(n)	1	1	2	3	5	8	13	21	34	55

$$f(n) = \begin{cases} 1, & n=1 \\ 1, & n=2 \\ f(n-1) + f(n-2) & \text{sonst} \end{cases}$$

```
public int fibR(int n){
    if(n == 1){
        return 1;
    } else if(n == 2){
        return 1;
    } else{
        return fibR(n-1) + fibR(n-2);
    }
}
```

```
public int fibI(int n){
    int vorvor = 1;
    int vor = 1;
    int erg = 1;
    for(int i=3; i<=n; i++){
        erg = vorvor + vor;
        vorvor = vor;
        vor = erg;
    }
    return erg;
}
```