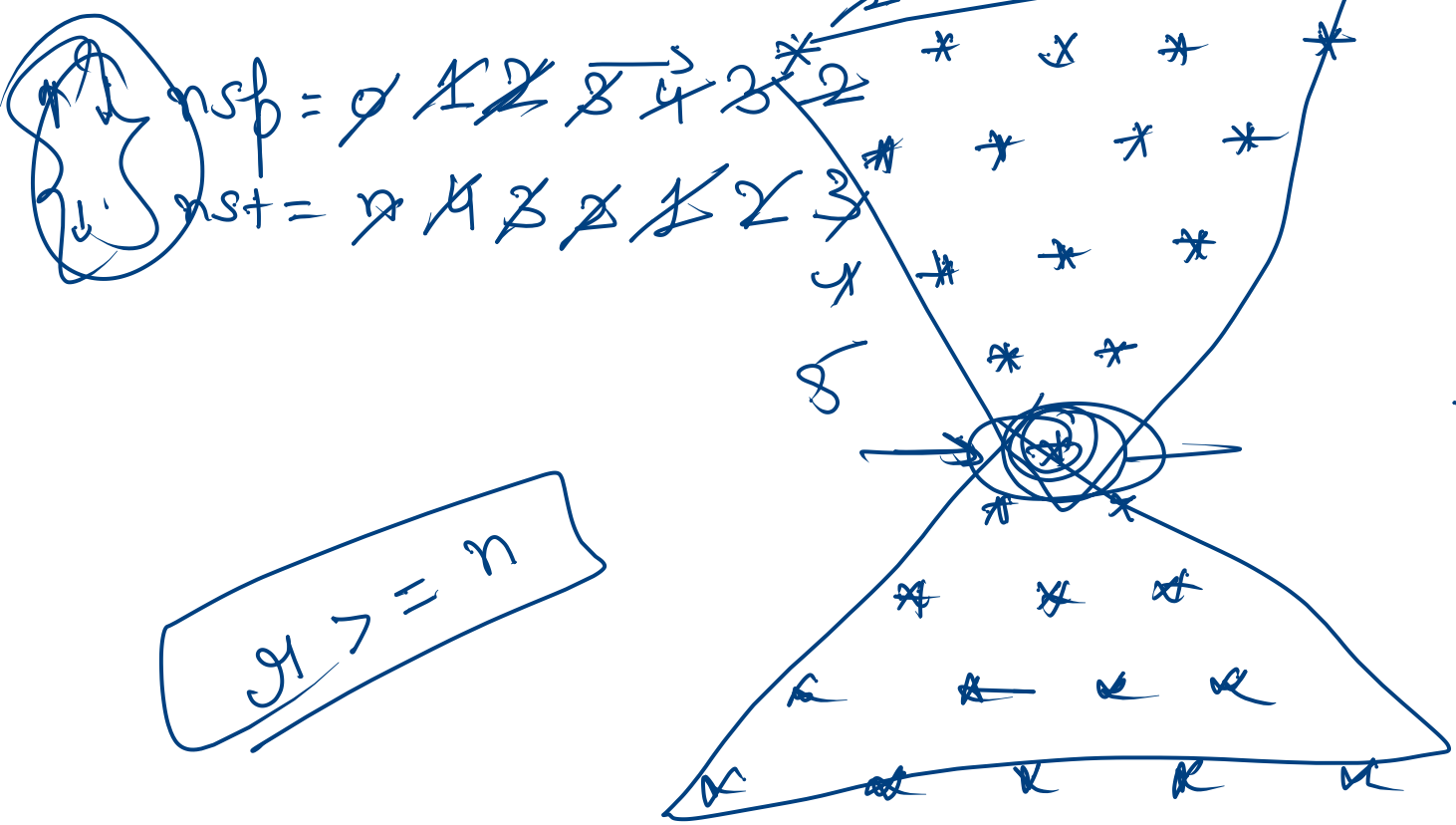
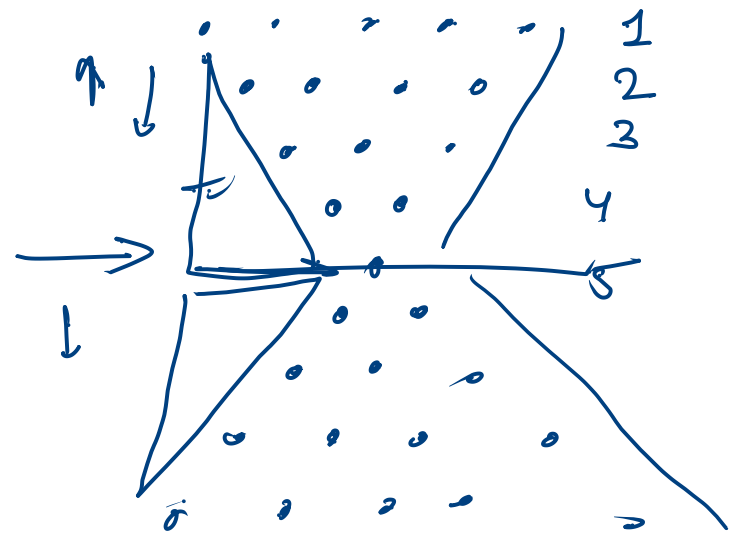
$n = 5$

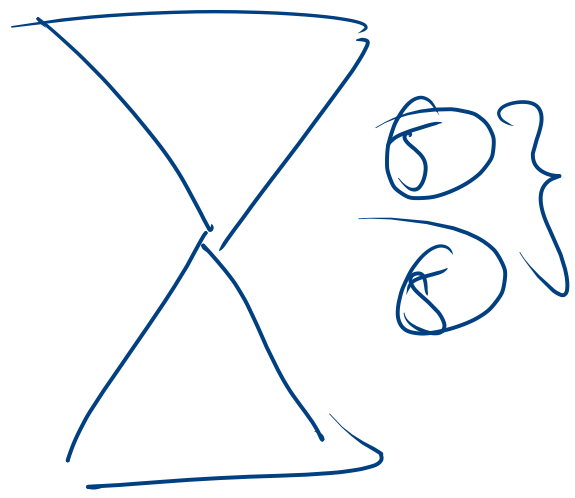
$q = 1$ $\quad p <= 2n-1$

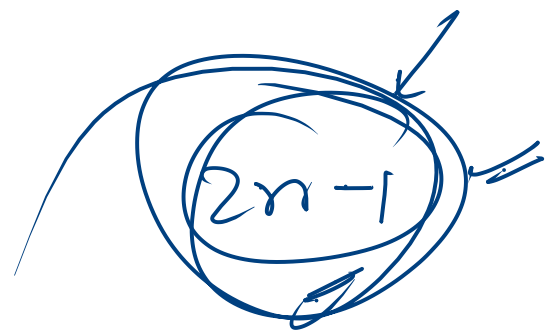


$p >= n$



$n = 5$





```java
public static void main(String[] args) {
    int n = 5;
    int nsp = 0;
    int nst = n;
    for(int r = 1; r <= (2 * n - 1); r ++) {
        for(int sp = 1; sp <= nsp; sp ++) {
            System.out.print(" ");
        }

        for(int st = 1; st <= nst; st ++) {
            System.out.print("* ");
        }

        System.out.println();

        if(r < n) {
            nsp ++;
            nst --;
        } else {
            nsp --;
            nst ++;
        }
    }
}
```

n = 6 =

2
4
8
-1
90

2
6
11
10
100

80

=
20
?

$n \Rightarrow$ $\longrightarrow$ no of inputs $n = 4$

```java
public class Solution {

    public static void main(String[] args) {
        Scanner scn = new Scanner(System.in);
        int n = scn.nextInt();
        int sum = 0;
        for(int i = 1; i <= n; i ++) {
            int num = scn.nextInt();
            sum = sum + num;
            System.out.print(sum + " ");
        }
    }
}
```

0th → 0

1st → 1

2nd → 1

3rd → 2

4th → 3

5th → 5

6th → 8

7th → 13

8th → 21

9th → 34

10th → 55

!

n → 7

7

n → 10

55

$f = \cancel{0}\ \cancel{1}\ \cancel{1}\ \cancel{2}\ 3$

$s = \cancel{1}\ \cancel{1}\ \cancel{2}\ \cancel{3}\ 5$

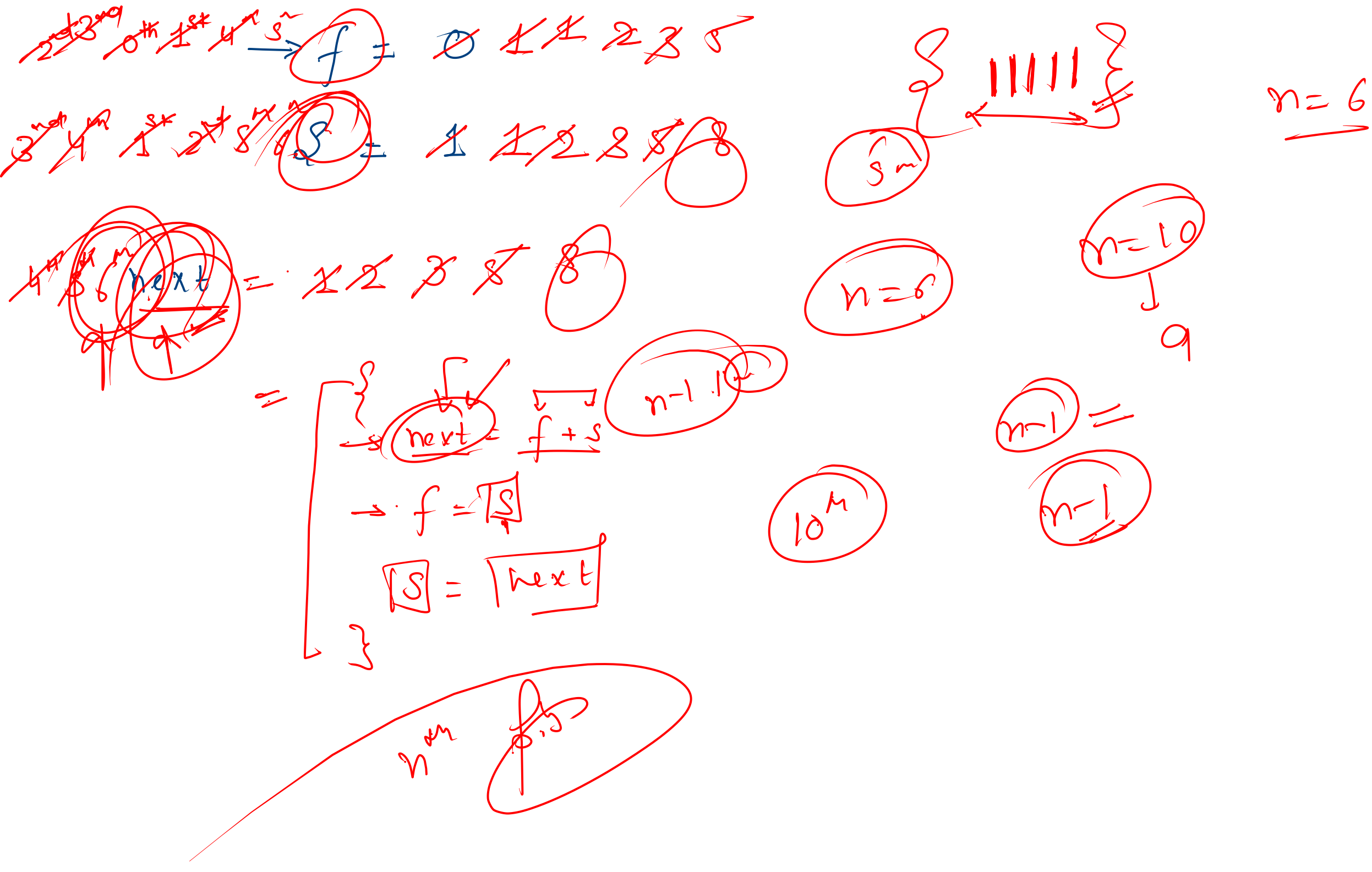
$n = 6$

$n-1$

$\text{next} = f + s = \cancel{1}\ \cancel{2}\ \cancel{3}\ \cancel{5}\ 8$

$f = s$

$s = \text{next}$



~~2nd 3rd 0th 1st 4th~~ 5th → f = ~~0~~ ~~1~~ ~~1~~ ~~2~~ ~~3~~ ~~5~~

~~3rd 4th 1st 2nd 5th 6th~~ s = ~~1~~ ~~1~~ ~~2~~ ~~3~~ ~~5~~ ~~8~~

~~4th 5th 6th~~ next = ~~1~~ ~~2~~ ~~3~~ ~~5~~ ~~8~~

= { next = f + s

→ f = s

s = next

}

n-1 1

n=6

n=10

9

n-1 =

n-1

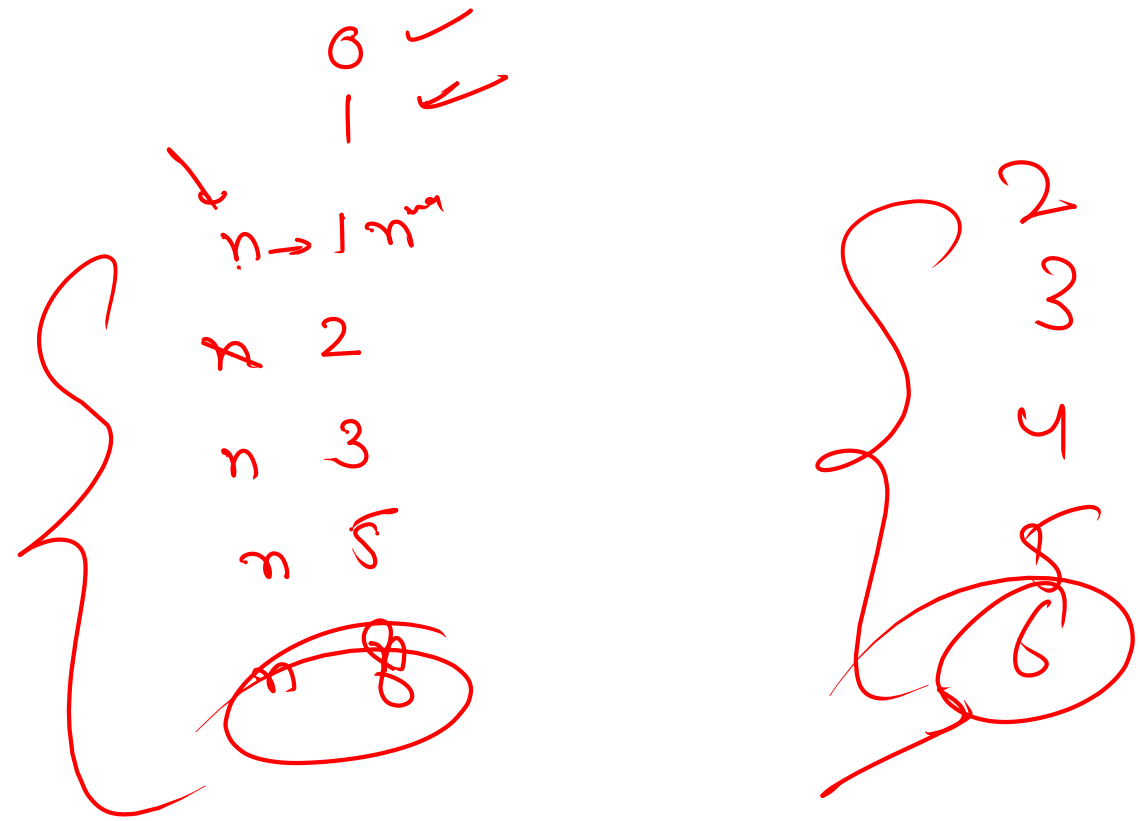
10th

n=6

5th

n=6

n th



0

1

$n \to 1\ n^{n-1}$

n 2

n 3

n 5

n 8

2

3

4

5

6

$0^{th} \longrightarrow 0$

$1^{st} \longrightarrow 1$

$2^{nd} \longrightarrow 1$

$3^{rd} \longrightarrow 2$

$4^{th} \longrightarrow 3$

$5^{th} \longrightarrow 5$

$6^{th} \longrightarrow 8$

$7^{th} \longrightarrow 13$

$n == n^{th}$ fibo ten

$n = 5$

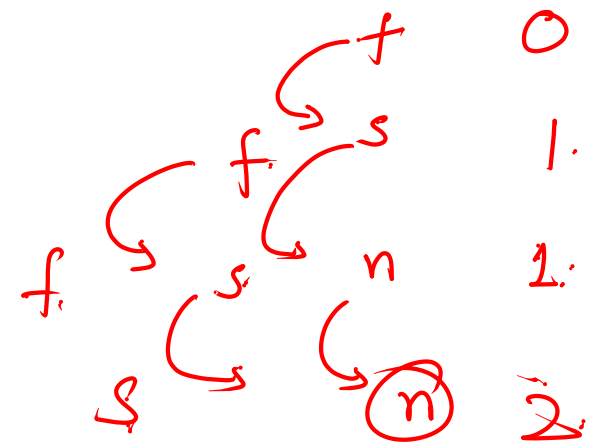
$n = 7$

↳ n9 fibo ten

$= f = 0$

$= s = 1$

$next = f + s$



0

1

1

2

3