

$a = \{ \overset{0}{\cancel{5}}, \overset{1}{4}, \overset{2}{3}, \overset{3}{2}, \overset{4}{\cancel{1}} \}$   
 $\text{index} = 4$

$\text{temp} = a[\text{index}]$

$a[\text{index}] = a[0]$

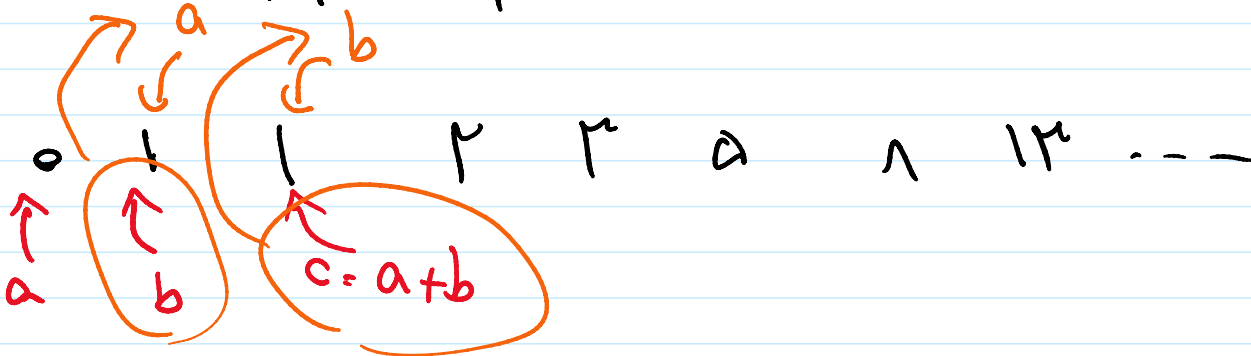
$a[0] = \text{temp}$

---

$$f_0 = 0$$

$$f_1 = 1$$

$$f_n = f_{n-1} + f_{n-2}$$



$k$

$$f_n = f_{n-1} + f_{n-2} + \dots + f_{n-k}$$

$$f_1 = \dots = f_{k-1} = 0$$

$$f_k = 1$$

while(  
n = 0;

a[0]: ~~0~~ 1

a[1]: 0

a[x]++;

a[2]: ~~0~~ 1 2

a[3]: ~~0~~ 1

~~1~~ ~~2~~ ~~3~~ ~~4~~ ~~5~~ ~~6~~ ~~7~~ ~~8~~ ~~9~~ ~~10~~

~~11~~ ~~12~~ ~~13~~ ~~14~~ ~~15~~ ~~16~~ ~~17~~ ~~18~~ ~~19~~ ~~20~~

int[] a;  
boolean