<큐, 덱>

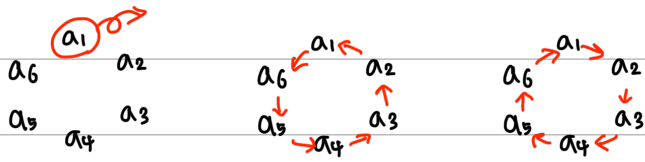## 1. 회전하는 큐

1 2 3 4 5 6 7 8 9 10

2 3 4 5 6 7 8 9 10 1 $\}$ 1 앞에있는 숫자수 (idx)

1 2 3 4 5 6 7 8 9 10

3 4 5 6 7 8 9 10 1 $\}$ 3 $(9-7)+1$
                          len idx

10 1 3 4 5 6 7 8 $\}$ 4 $(8-4)$

8 7 6 10 1 3 4

/ / / r = 5

2. AC

R (뒤집기) : 배열 로서

D (버리기) : 첫번째 수 버리기 — 비어있을때 사용시 에러

<동적계획법 1>

1. 피보나치


```
      5
     /\
   3 + 4
  /\    /\
1+2   2+3
 |
 1
```
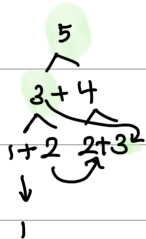
2. 신비한 함수 실행

$a <= 0,\ b <= 0,\ c <= 0$: ①

$a > 20,\ b > 20\ \ c > 20$: W(20, 20, 20)

$a < b < c$: 예) $(-1, 0, 1)$

$(-1,0,0) + (-1,-1,0) - (-1,-1,1)$

$\underset{①}{\|}$ $\underset{①}{\|}$

$(-2,-1,1) + (-2,-2,1) + (---0) + (---0)$

$|$ $\diagdown$ $\underset{①}{\|}$ $\underset{①}{\|}$

$(+1 - (-2,-2,1)$ $(-3,-2,1) + (-3,-3,1) + 2$

$|$

$2 - (-3,-3,1)$

$\underset{\sim\sim\sim}{}$

$(-4,-3,1) + (-4,-4,1)$

$(1,1,1)$

$|$

$(0,1,1) + (0,0,1) + (0,1,0) - (0,0,0)$ $\begin{matrix}1\\2\\3\end{matrix}$ $\Big[(1, \quad\quad\quad\quad]$

$|$ $\underset{①}{\|}$

$(-1,1,1) + (-1,0,1) + (-1,1,0) - (-1,0,0)$

4. 파도반 수열

$1, 1, 1, 2, 2, 3, 4, 5, 7, 9, 12$

(③) (⑦) (12)

3. 이타일

N=1	1					1
N=2	00	11				2
N=3	001	100	111		$\frac{3\times 2\times 1}{2} = 3$	$1 + \frac{2\times 1}{1} = 3$
N=4	0000	1100	1001	0011	1111	$2 + \frac{3!}{2!} = 5$
N=5	11100 $\left(\frac{4\times 3\times 2\times 1}{3\times 2\times 1} = 4\right)$					$1 + 4 + 3 = 8$
	100 00 $\left(\frac{3\times 2\times 1}{2\times 1} = 3\right)$		BTN			
	11111					

N= 6
```
111111
111100
110000
000000
```
$2+ \dfrac{5!}{4!} + \dfrac{4!}{2!2!} = 2+5+6 = 13$

N=7
```
1111111
1111100
1110000
1000000
```
$1+ \dfrac{6!}{5!} + \dfrac{5!}{3!2!} + \dfrac{4!}{3!} = 1+6+10+4 = 21$

수열 1 2 3 5 8 13 21 · · ·

18	19	20	21	
				6946
4181	6765	10946	17711	