






$$n = 7$$



add(2, )

$j$   
↓

$j + n - 1$   
↓



0

1

2


3

4

5


6

$n = 7$

add(2, )



$n = 7$

add(2, )

$i$

$n - i$



0

1

2


3

4

5

6


$n = 7$

add(2, )

$i$   $n - i$



$n = 7$

add(2, )

$j$   
↓



0

1

2

3

4

5

6

$n = 7$



add(2, )

$j$   
↓



0

1

2

3


4

5

6

7

$n = 8$

add(2, )

$j$   
↓



0

1

2

3


4

5

6

7

$n = 8$

add(2, )

$j$   
↓



0

1

2

3


4

5

6

7

$n = 8$

add(2, )

$j$   
↓



0

1

2

3


4

5

6

7

$n = 8$

add(2, )

$j$   
↓



0

1

2

3

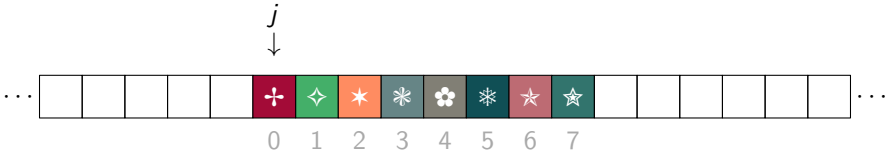
4

5


6

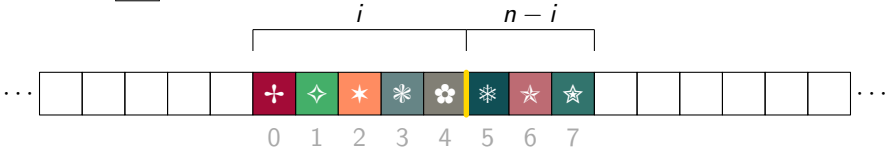
7

$n = 8$




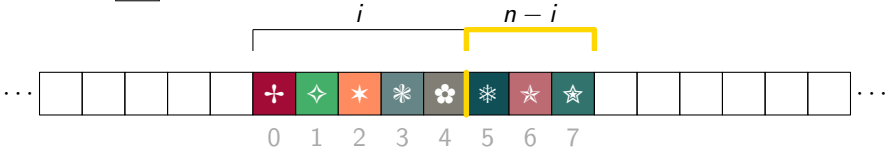
$$n = 8$$

add(5, )



$n = 8$

add(5, )



$n = 8$



`add(5, )`

$j$   
↓



0

1

2

3


4

5

6

7

$n = 8$

`add(5, )`

$j$   
↓



0

1

2

3

4


5

6

7

8

$n = 9$


`add(5, )`

$j$   
↓



0 1 2 3 4 5 6 7 8

$n = 9$

`add(5, )`

$j$   
↓



0

1

2

3

4


5

6

7

8

$n = 9$

`add(5, )`

$j$   
↓



0

1

2

3

4


5

6

7

8

$n = 9$

`add(5, )`

$j$   
↓



0

1

2

3

4

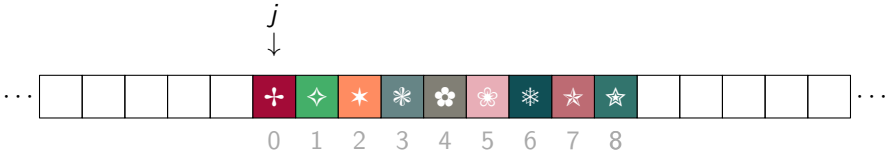
5

6

7

8

$n = 9$



$$n = 9$$

remove(3)

$j$   
↓



0

1

2

3

4

5

6

7

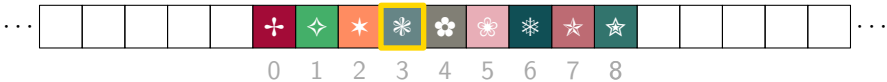
8

$n = 9$



```
remove(3)
```

$j$


$$n = 9$$

remove(3)

$j$   
↓



0

1

2

3

4

5

6

7

8

$n = 9$

remove(3)

$i$

$n - i - 1$



0

1

2

3

4

5

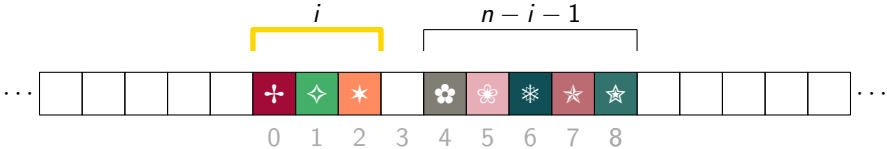
6

7

8

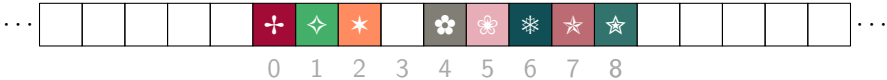
$n = 9$

remove(3)



$n = 9$

remove(3)



$n = 9$

remove(3)

$j$   
↓



0

1

2

3

4

5

6

7

8

$n = 9$

remove(3)

$j$   
↓



0

1

2

3

4

5

6

7

8

$n = 9$

remove(3)

$j$   
↓



0

1

2

3

4

5

6

7

8

$n = 9$



remove(3)

$j$   
↓



0

1

2

3

4

5

6

7

$n = 8$