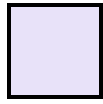
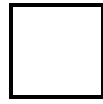


Selection Sort



These elements are already sorted



Find the minimum among these elements

C

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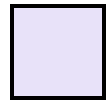
H

F

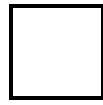
A

G

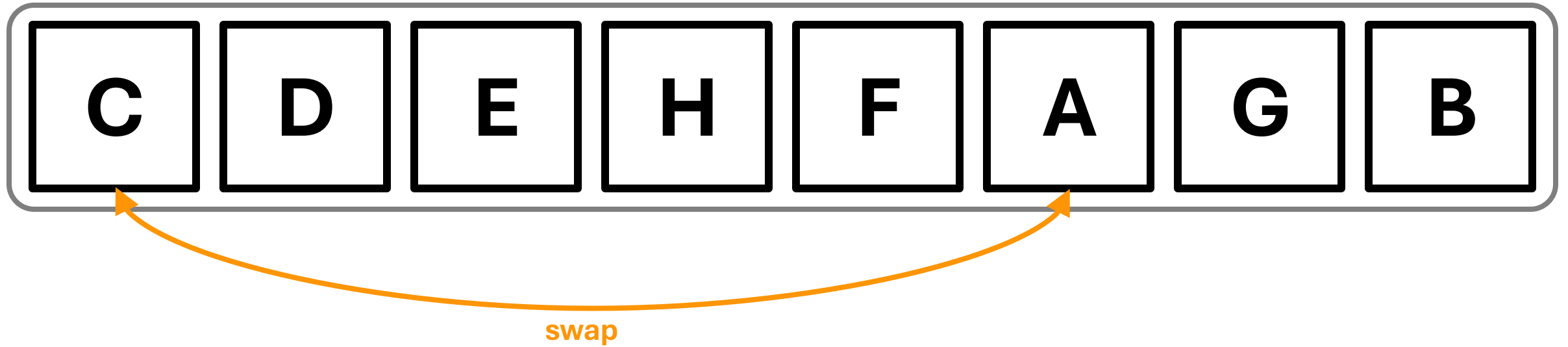
B

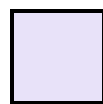


These elements are already sorted

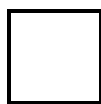


Find the minimum among these elements





These elements are already sorted



Find the minimum among these elements

A

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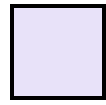
H

F

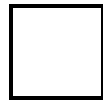
C

G

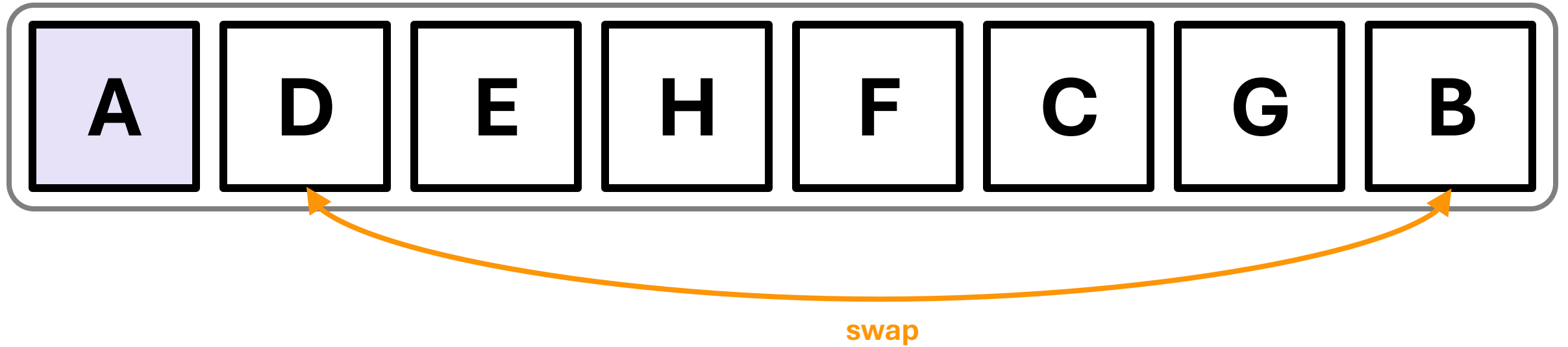
B

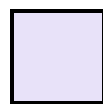


These elements are already sorted

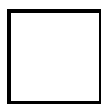


Find the minimum among these elements





These elements are already sorted



Find the minimum among these elements

A

B

E

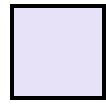
H

F

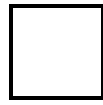
C

G

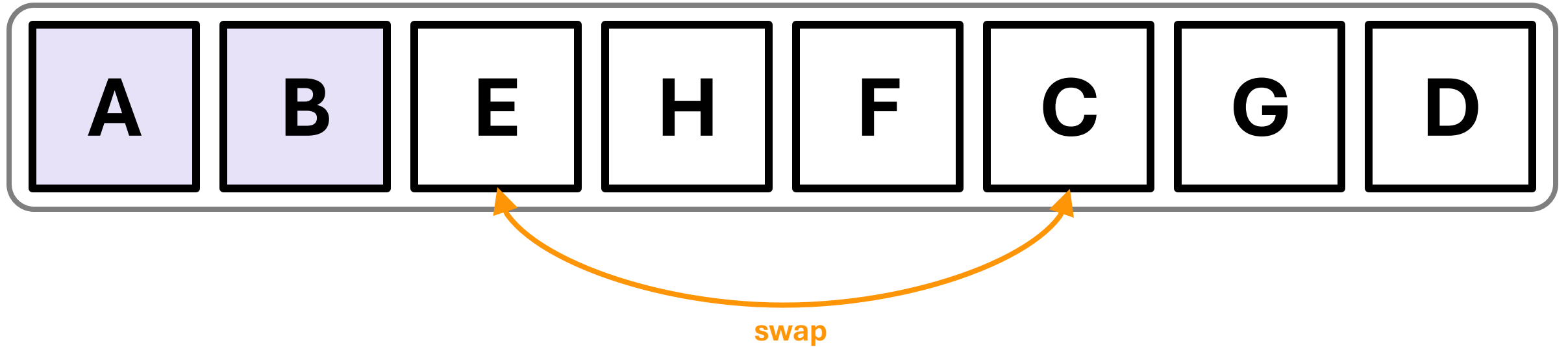
D

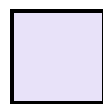


These elements are already sorted

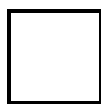


Find the minimum among these elements

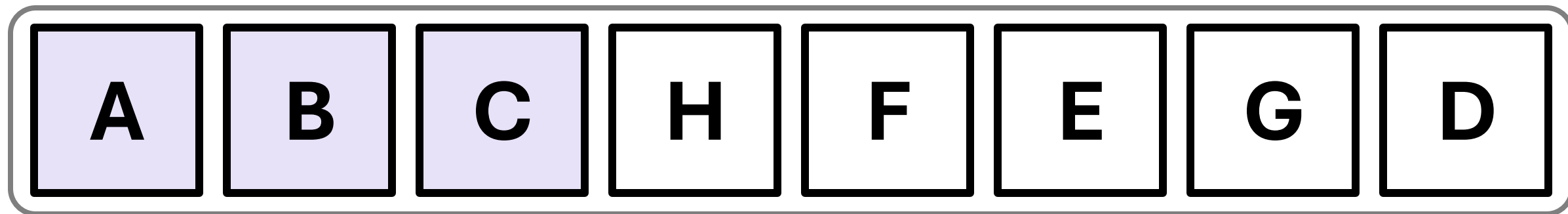


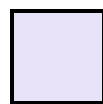


These elements are already sorted

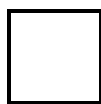


Find the minimum among these elements

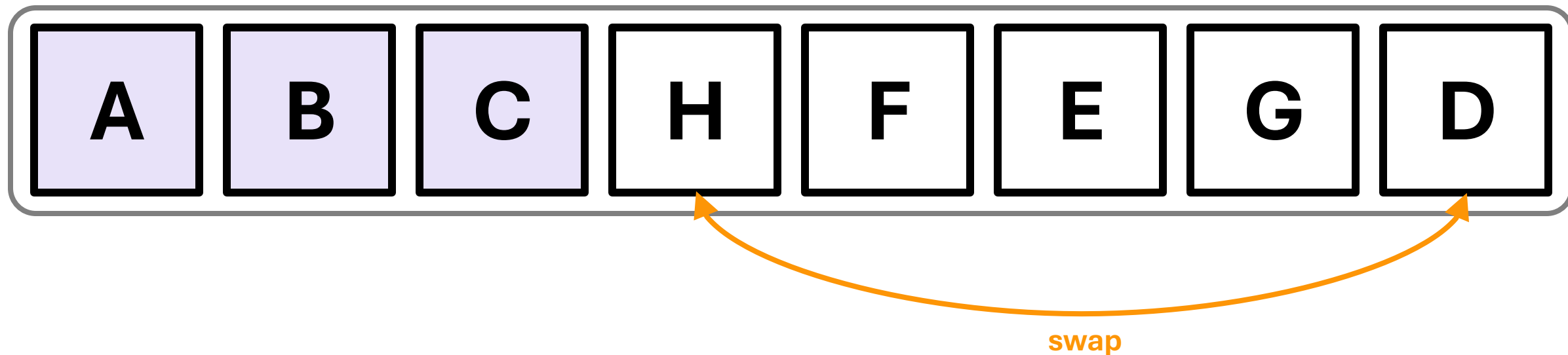


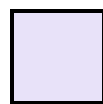


These elements are already sorted

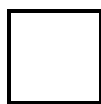


Find the minimum among these elements

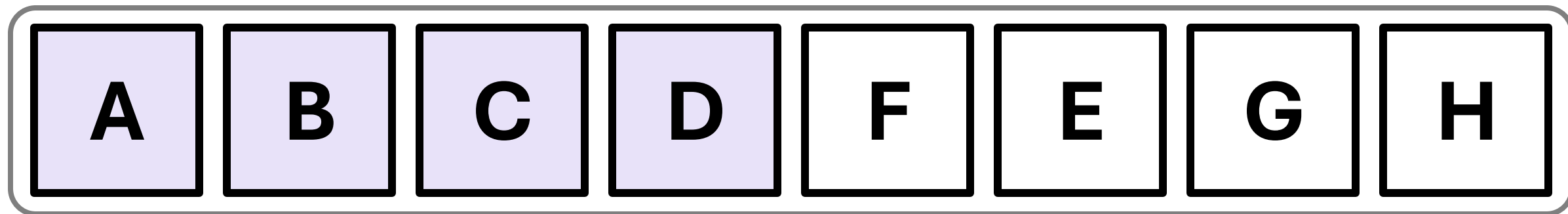


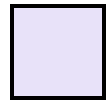


These elements are already sorted

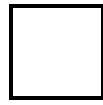


Find the minimum among these elements

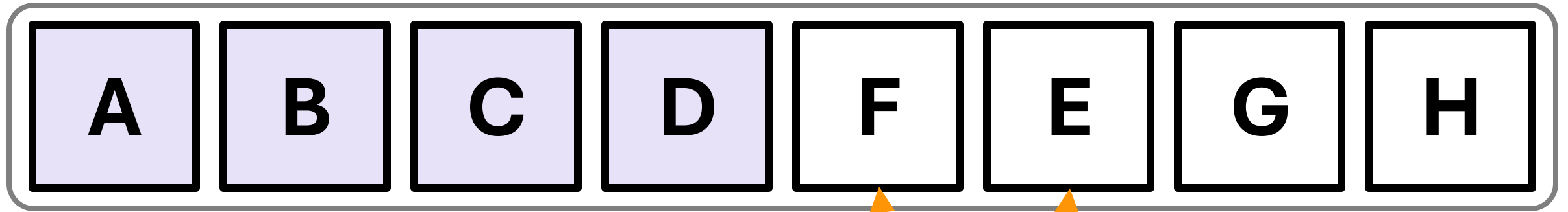




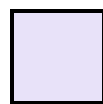
These elements are already sorted



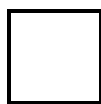
Find the minimum among these elements



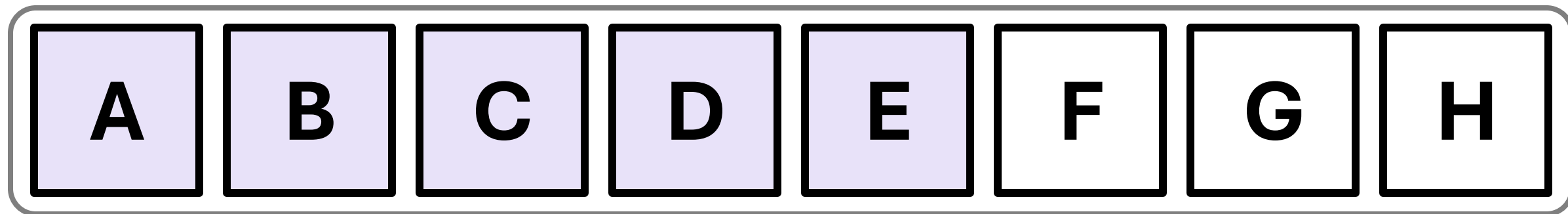
swap

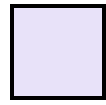


These elements are already sorted

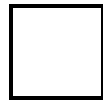


Find the minimum among these elements

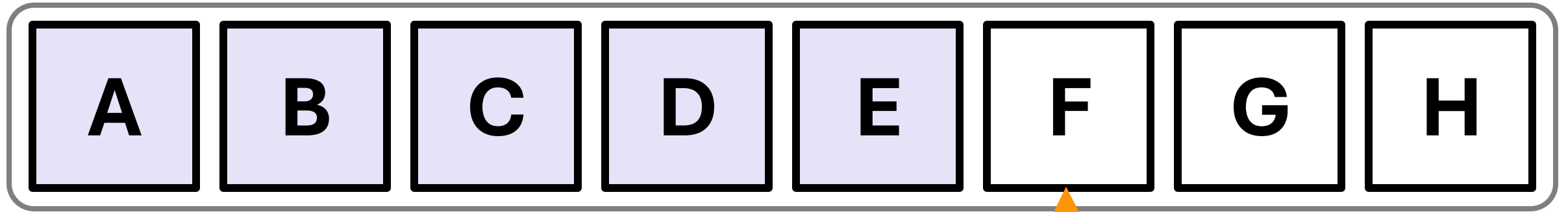




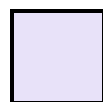
These elements are already sorted



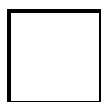
Find the minimum among these elements



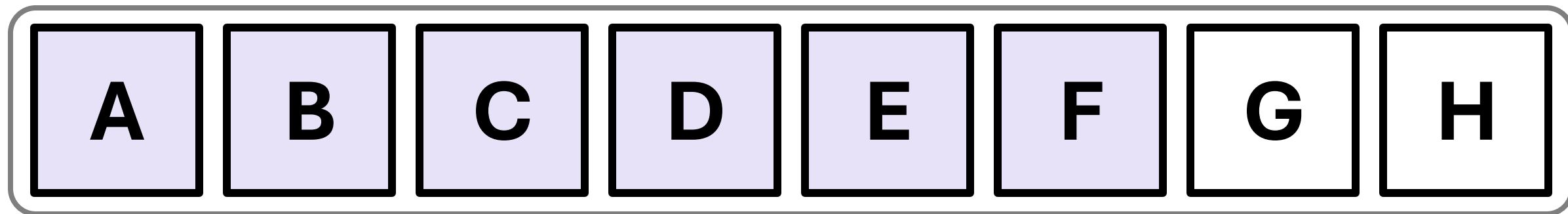
is already the minimum

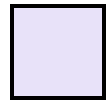


These elements are already sorted

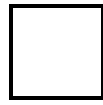


Find the minimum among these elements

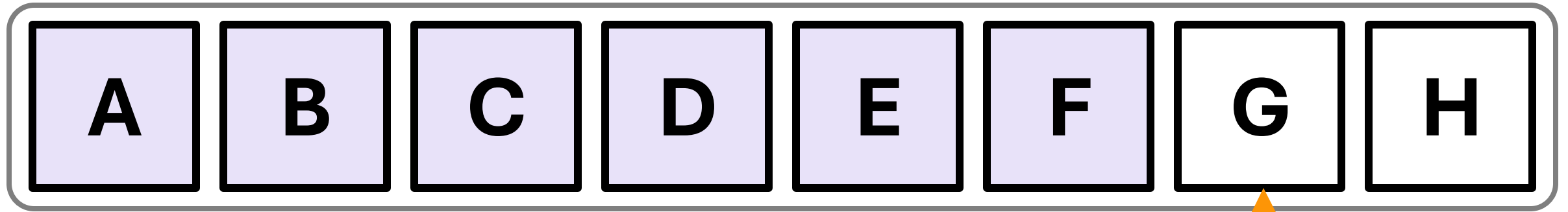




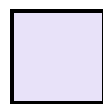
These elements are already sorted



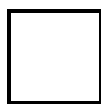
Find the minimum among these elements



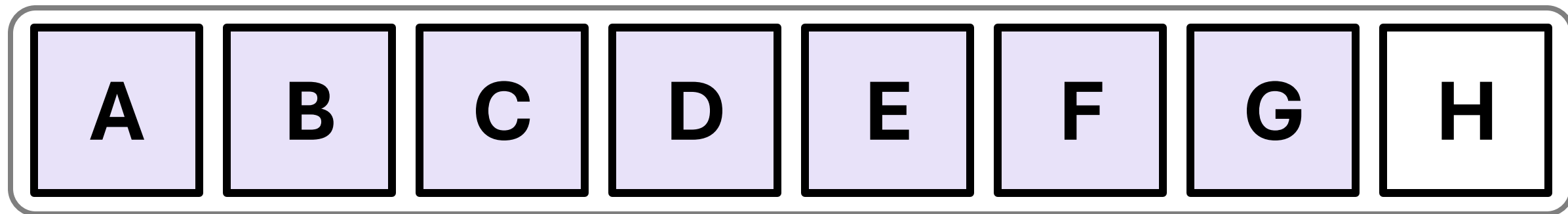
is already the minimum

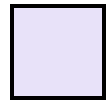


These elements are already sorted

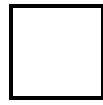


Find the minimum among these elements

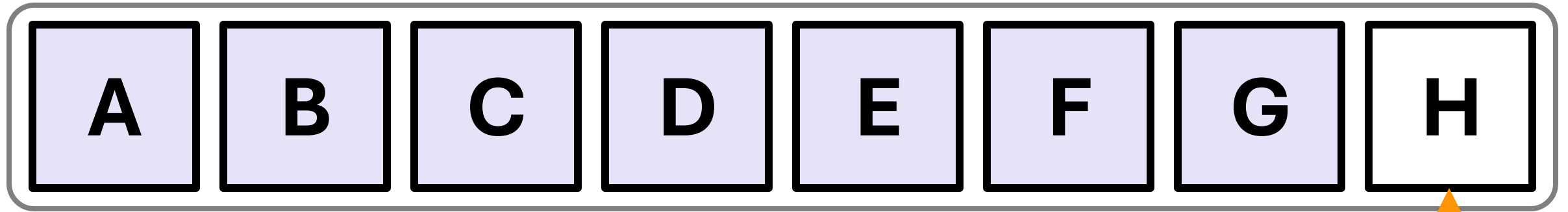




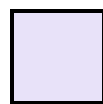
These elements are already sorted



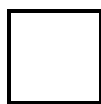
Find the minimum among these elements



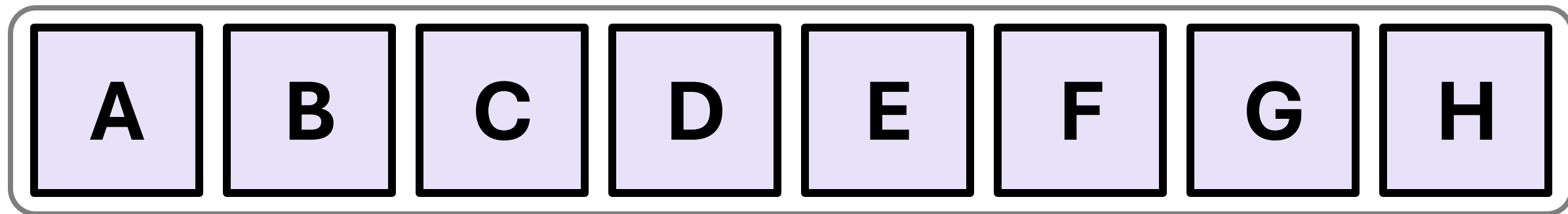
is **always**
the minimum



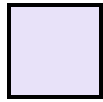
These elements are already sorted



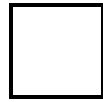
Find the minimum among these elements



Insertion Sort



These elements are already in order



Place this element in the correct position

C

D

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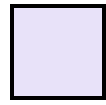
H

F

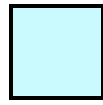
A

G

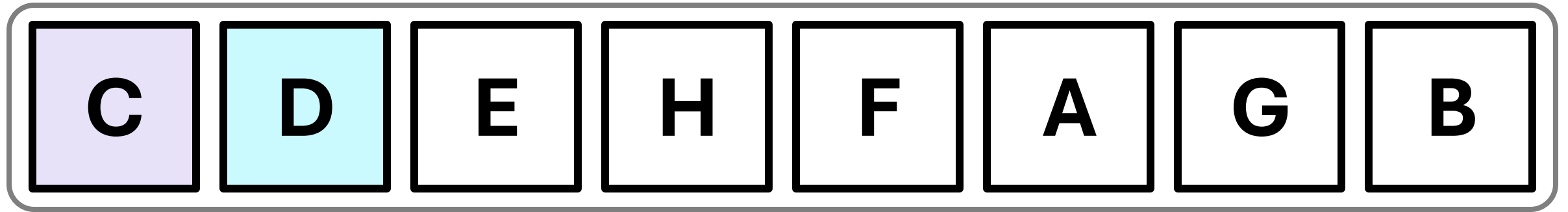
B

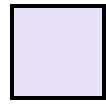


These elements are already in order

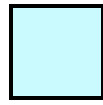


Place this element in the correct position

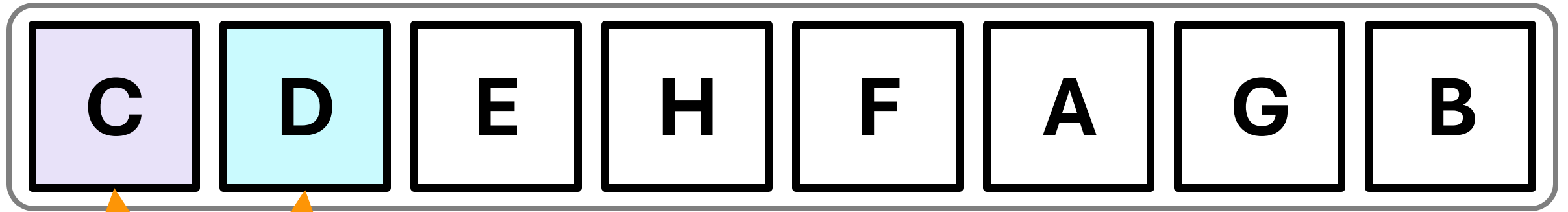




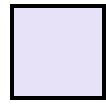
These elements are already in order



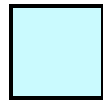
Place this element in the correct position



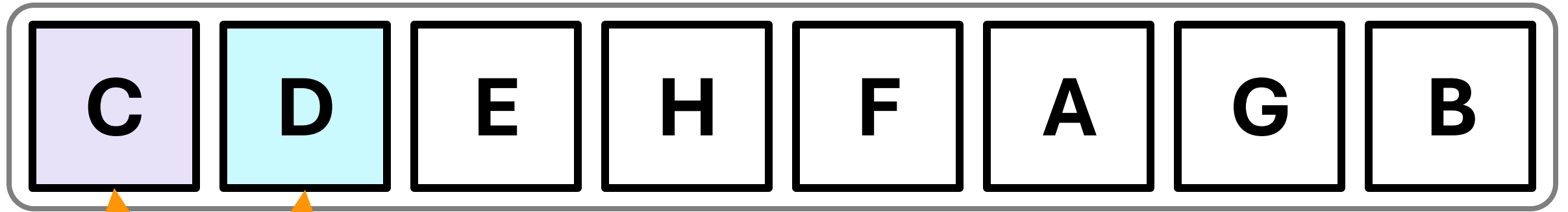
need to swap?



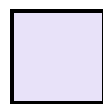
These elements are already in order



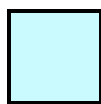
Place this element in the correct position



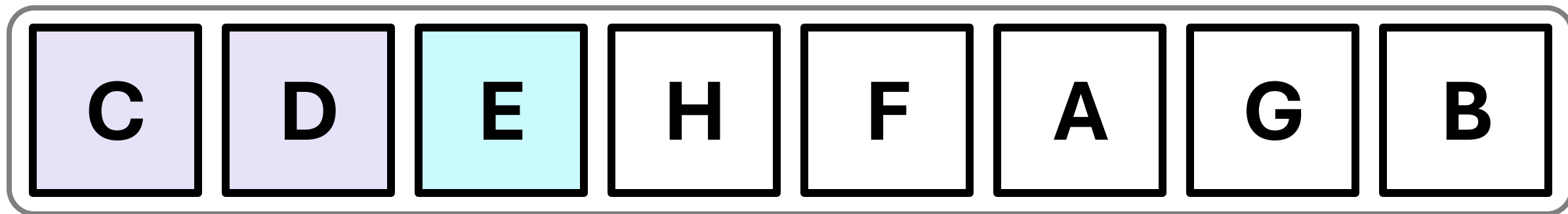
need to swap?
NO!

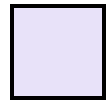


These elements are already in order

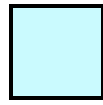


Place this element in the correct position

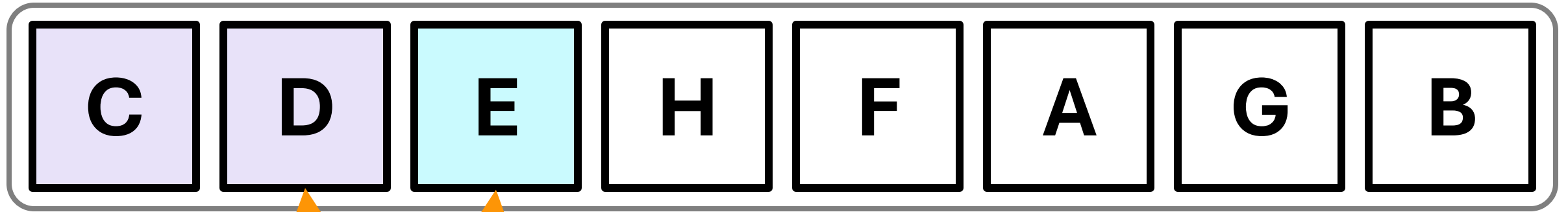




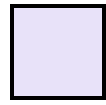
These elements are already in order



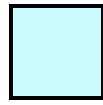
Place this element in the correct position



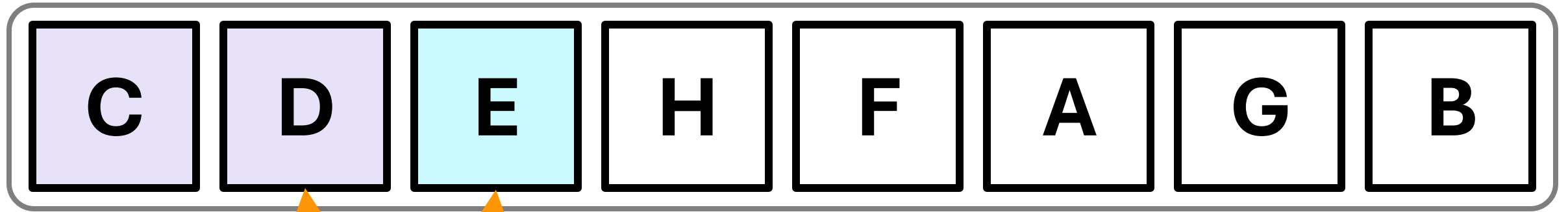
need to swap?



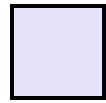
These elements are already in order



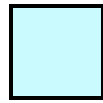
Place this element in the correct position



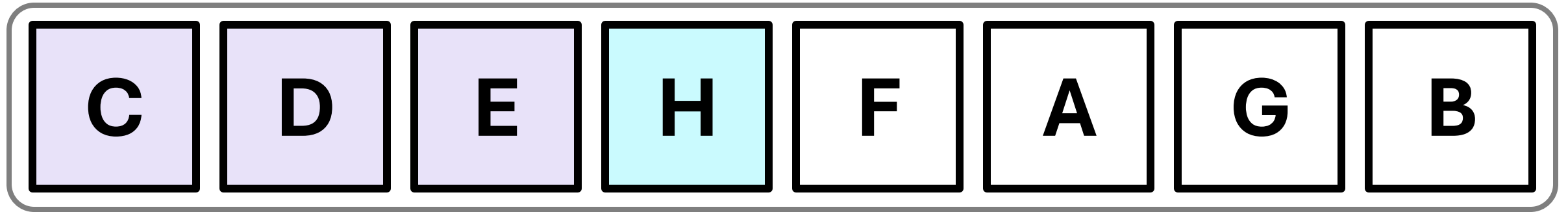
need to swap?
NO!

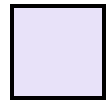


These elements are already in order

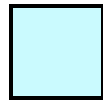


Place this element in the correct position

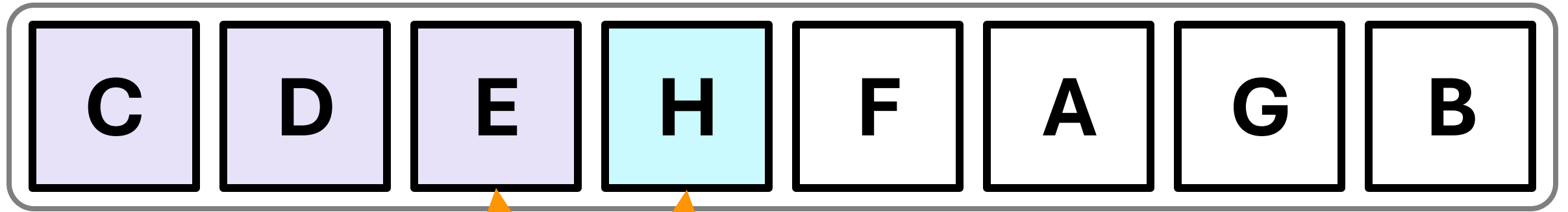




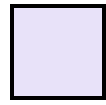
These elements are already in order



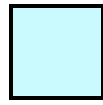
Place this element in the correct position



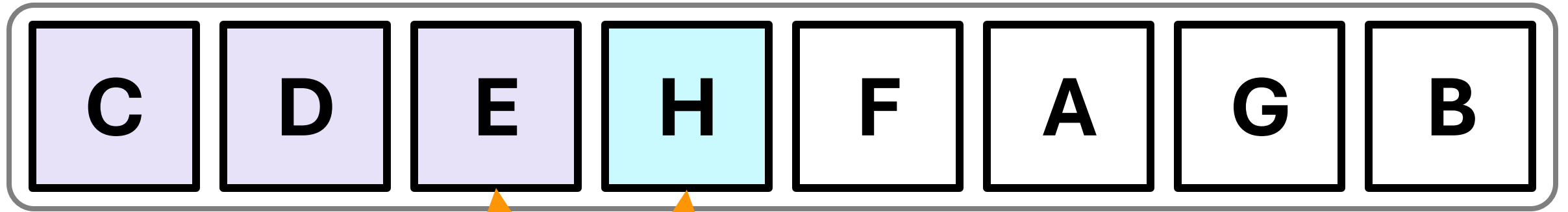
need to swap?



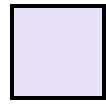
These elements are already in order



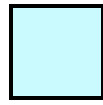
Place this element in the correct position



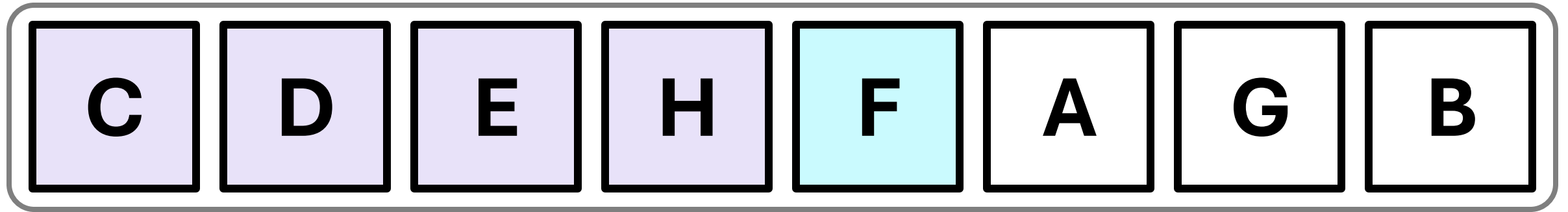
need to swap?
NO!

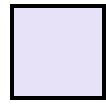


These elements are already in order

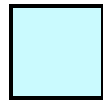


Place this element in the correct position

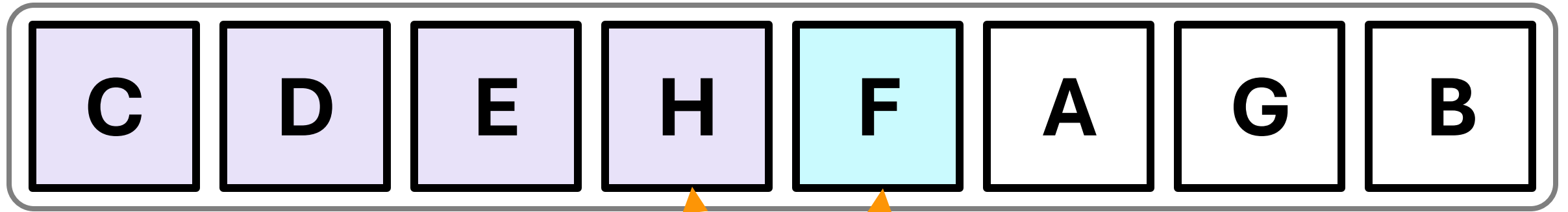




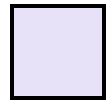
These elements are already in order



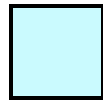
Place this element in the correct position



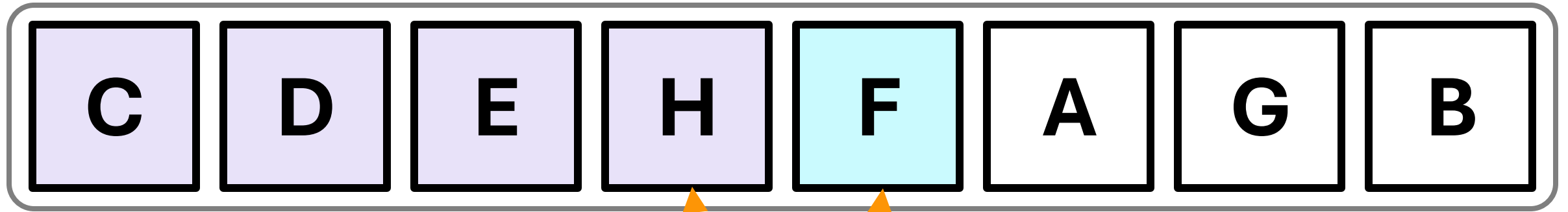
need to swap?



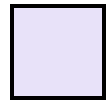
These elements are already in order



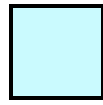
Place this element in the correct position



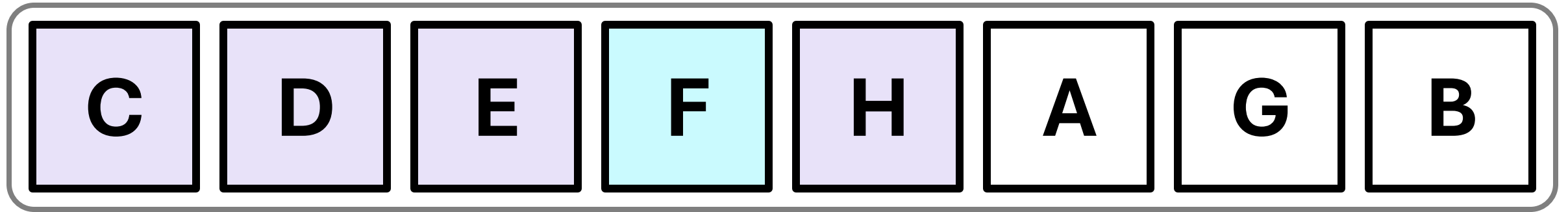
need to swap?
YES!

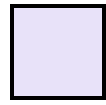


These elements are already in order

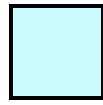


Place this element in the correct position

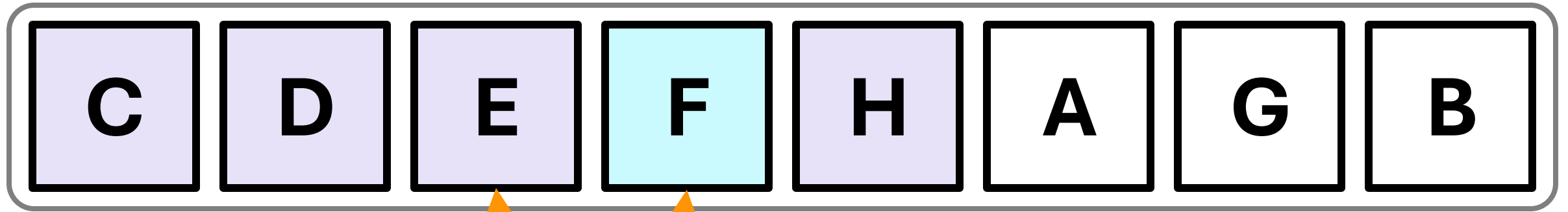




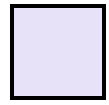
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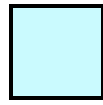
Place this element in the correct position



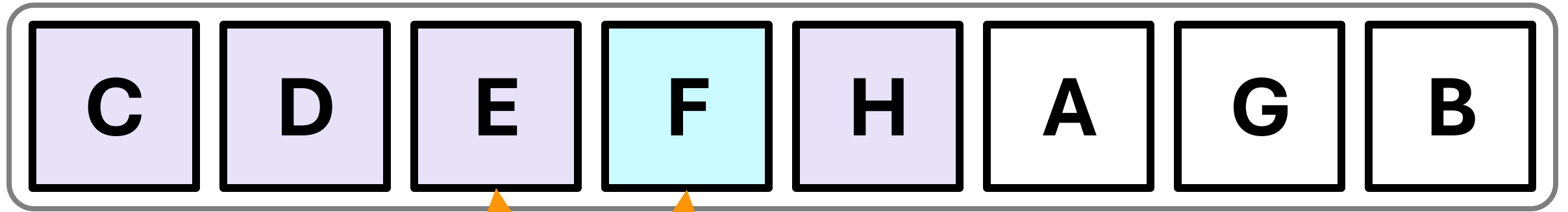
need to swap?



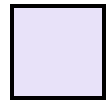
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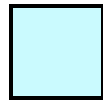
Place this element in the correct position



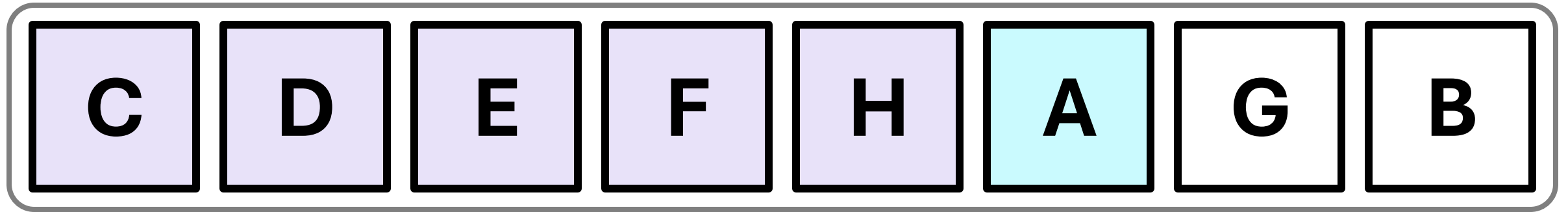
need to swap?
NO!

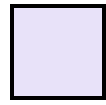


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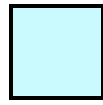


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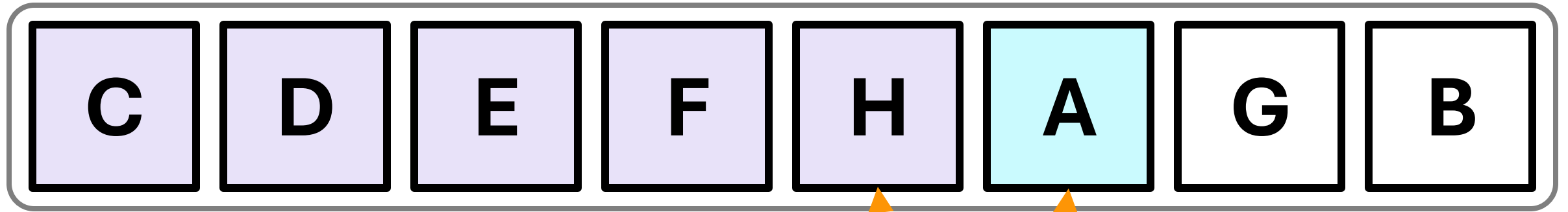




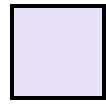
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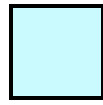
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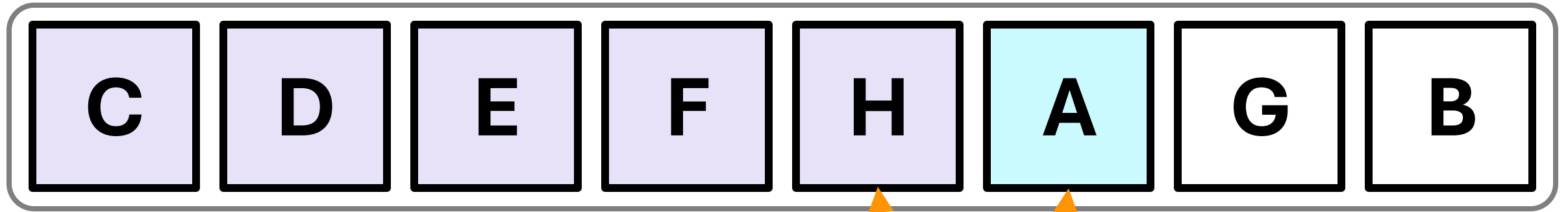
need to swap?



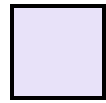
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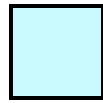
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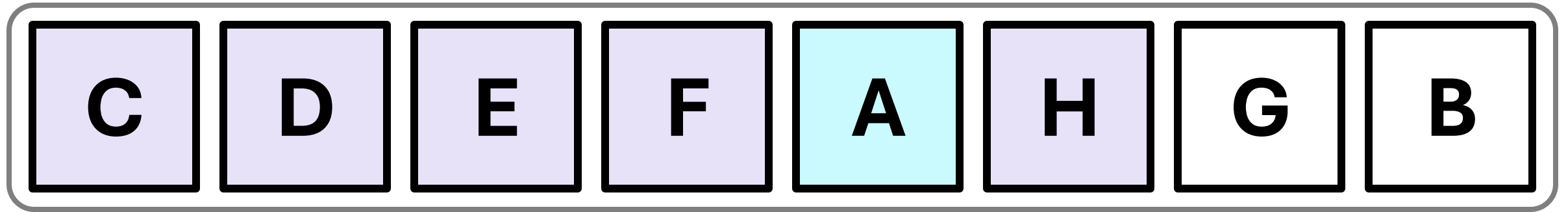
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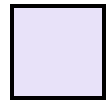


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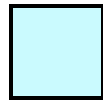


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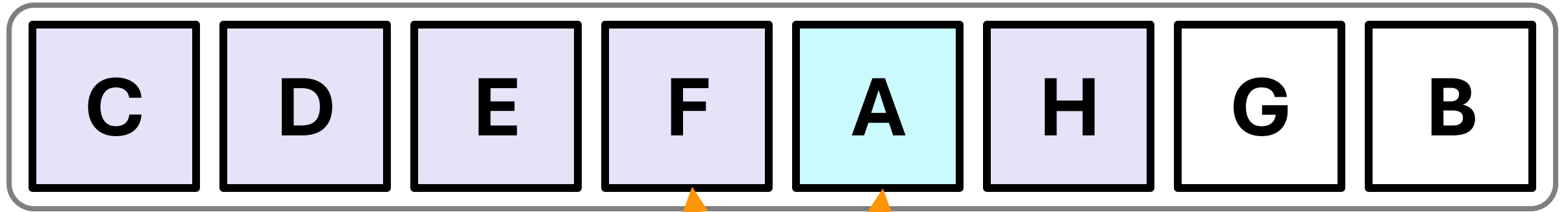




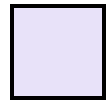
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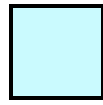
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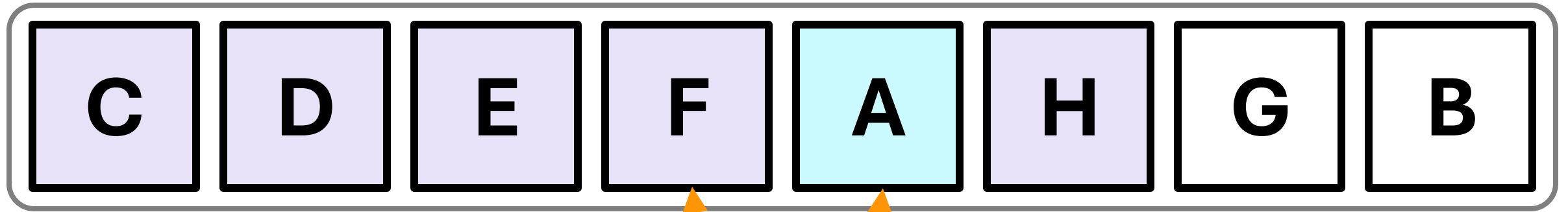
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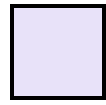
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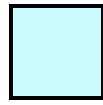
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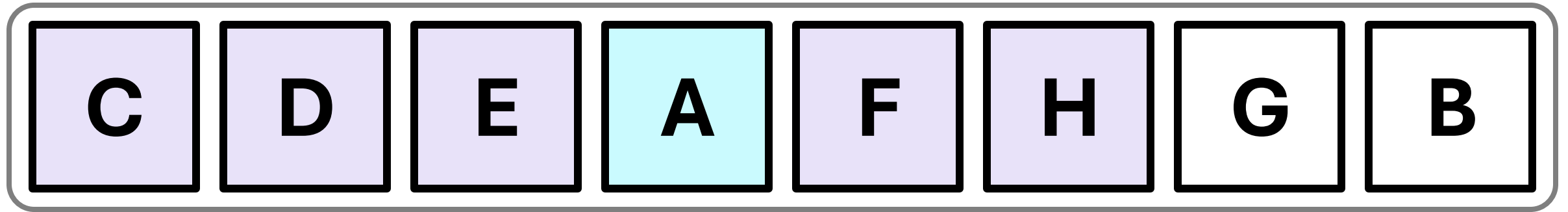
need to swap?
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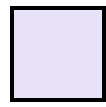


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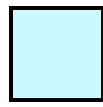


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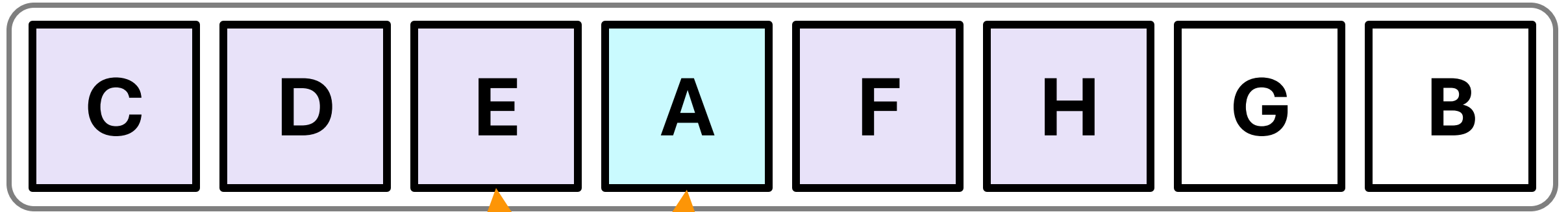




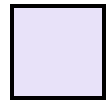
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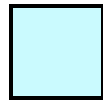
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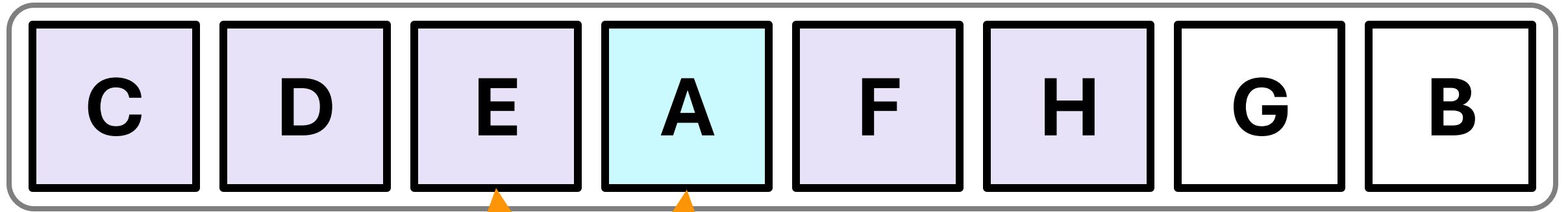
need to swap?



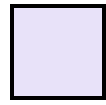
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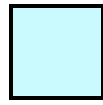
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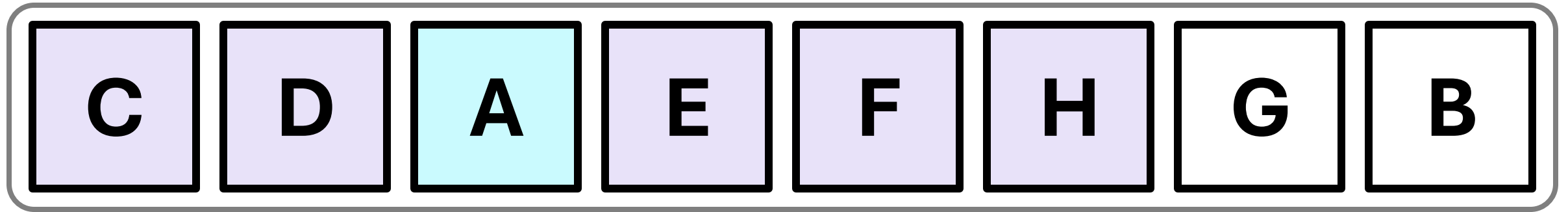
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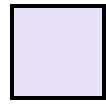


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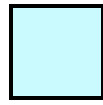


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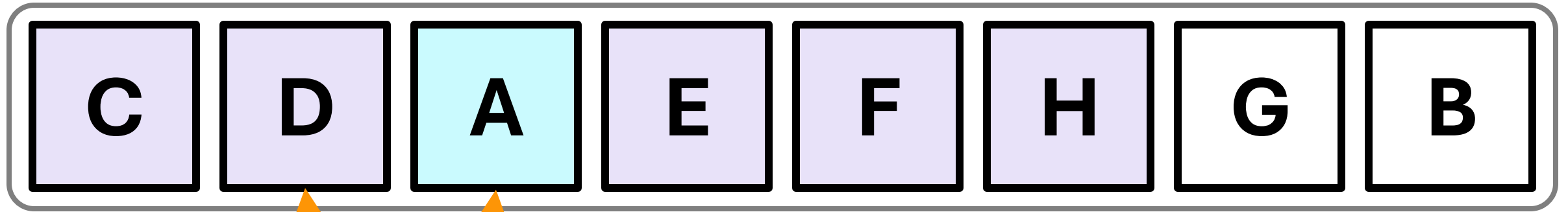




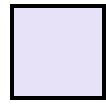
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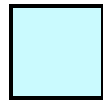
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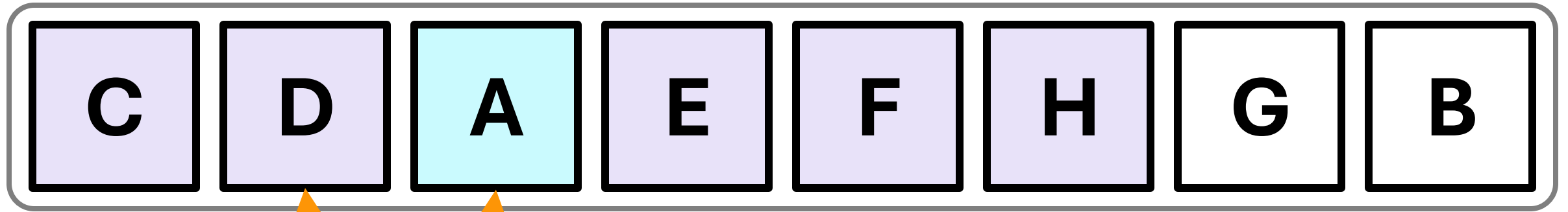
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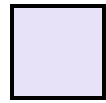
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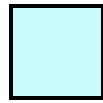
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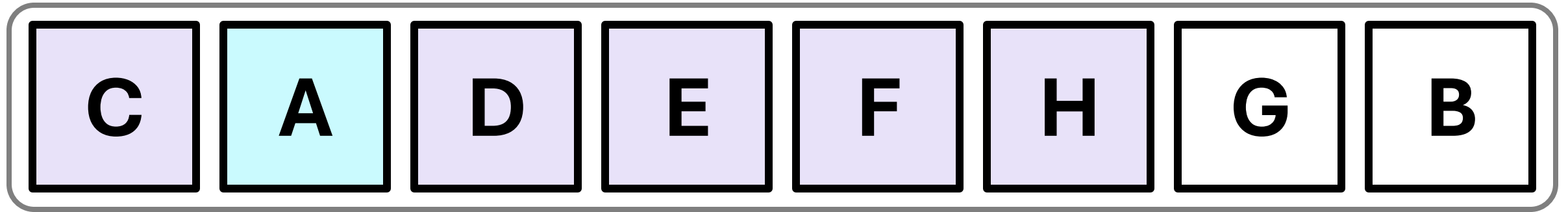
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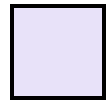


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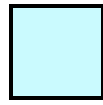


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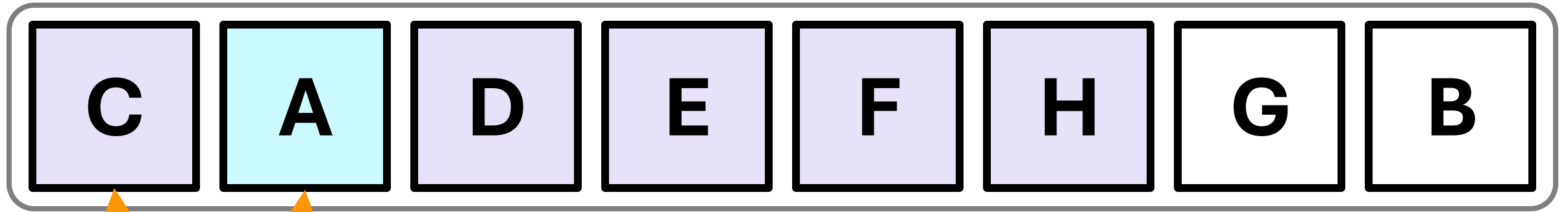




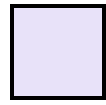
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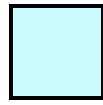
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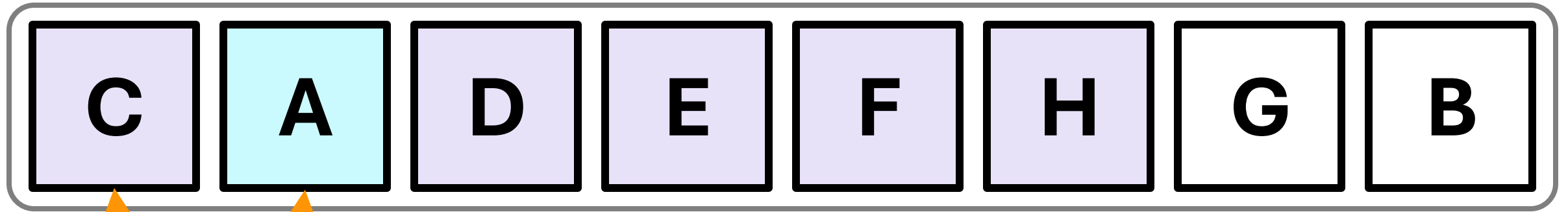
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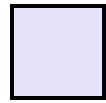
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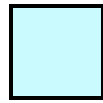
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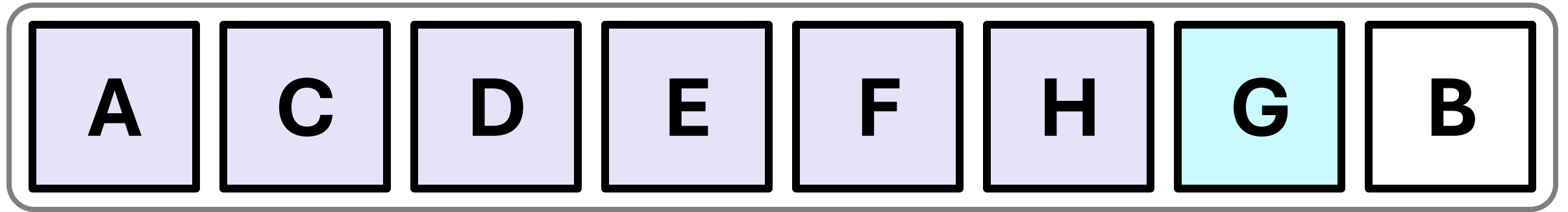
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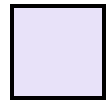


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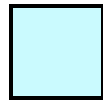


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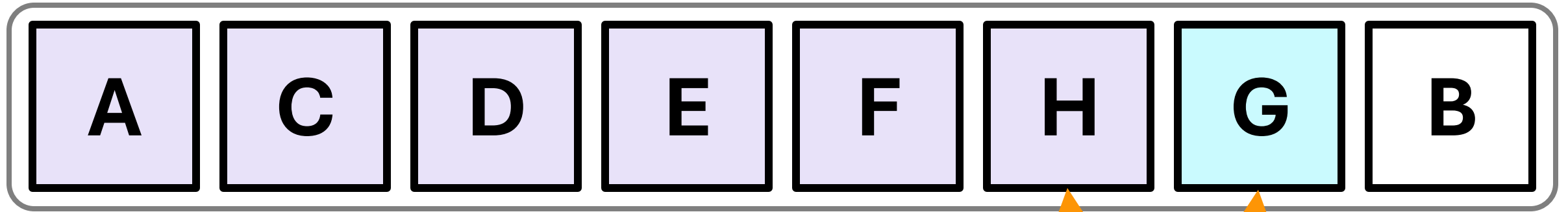


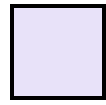


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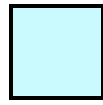


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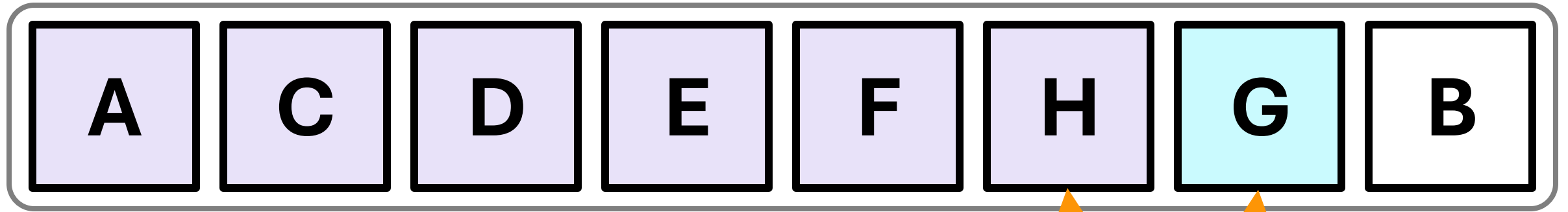


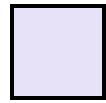


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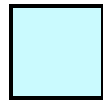


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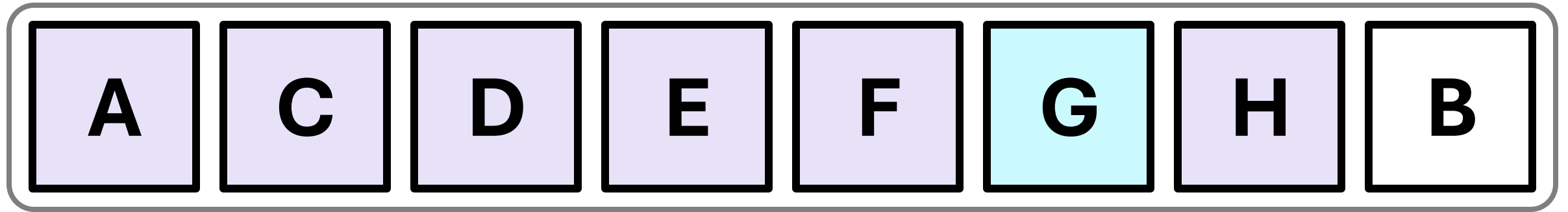


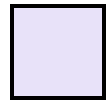


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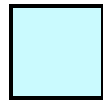


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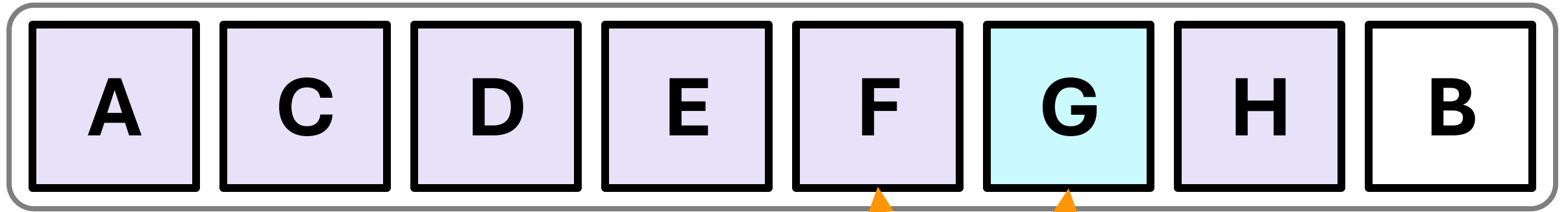




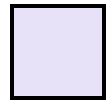
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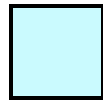
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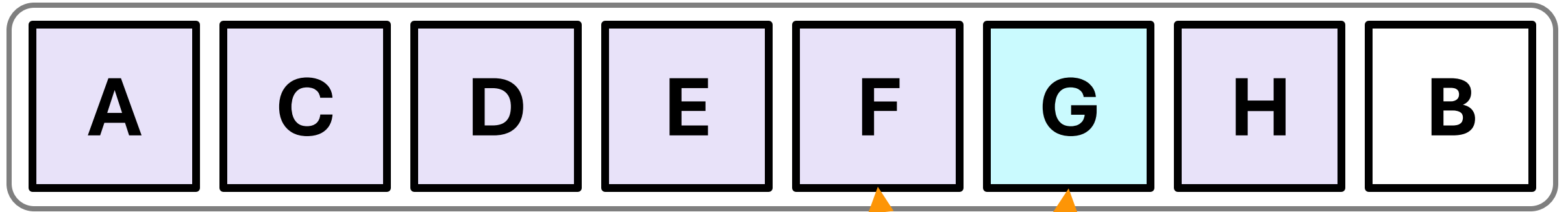
need to swap?



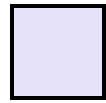
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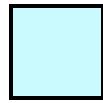
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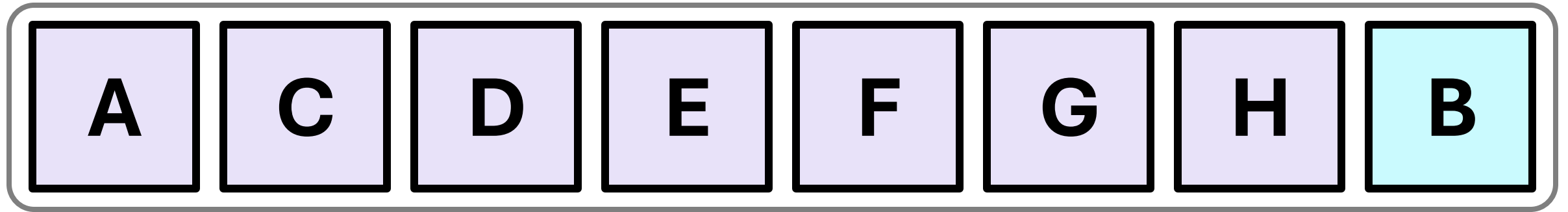
need to swap?
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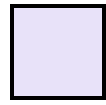


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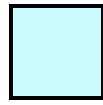


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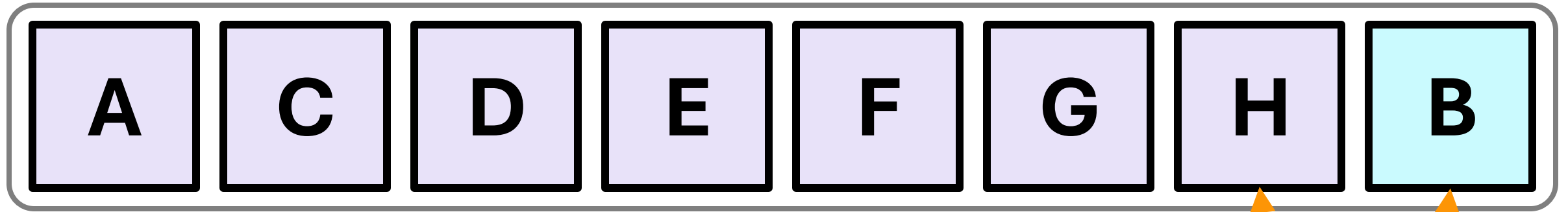




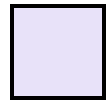
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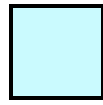
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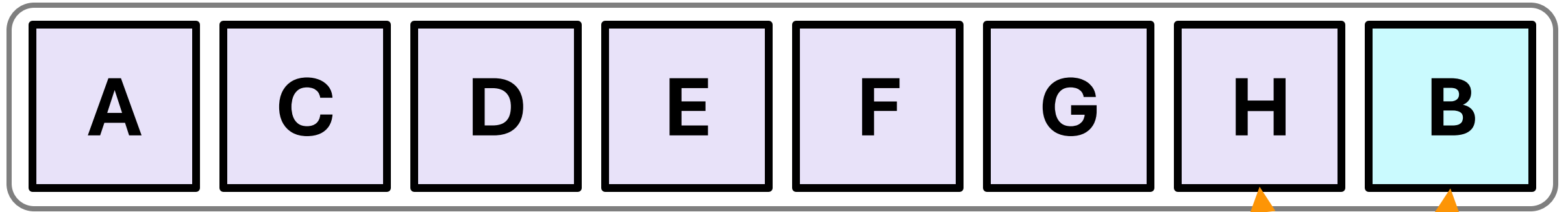
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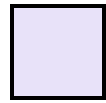
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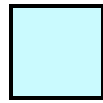
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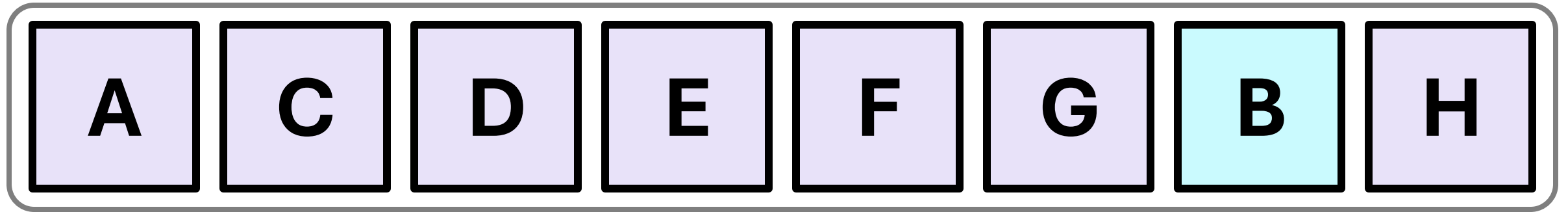
need to swap?
YES!



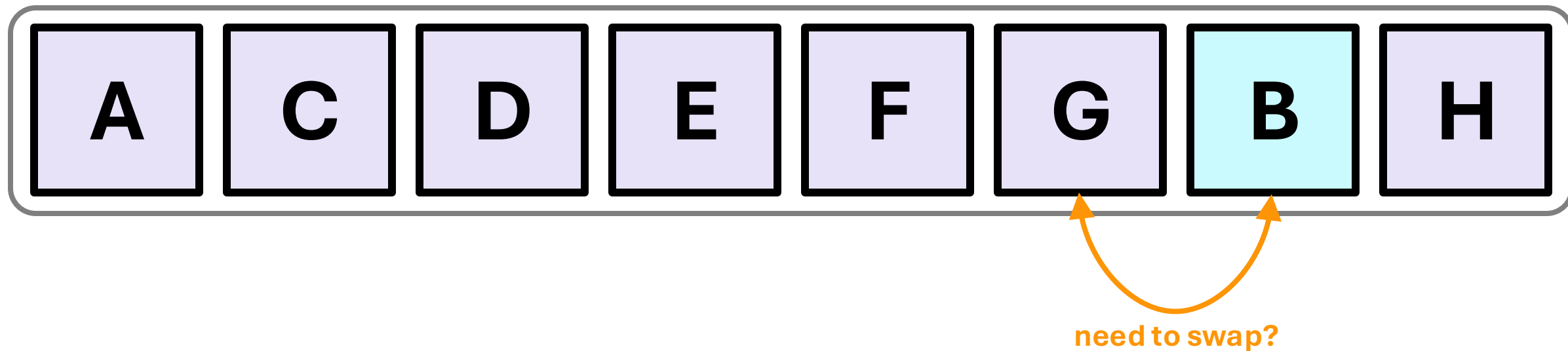
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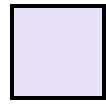


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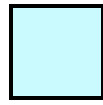


 These elements are already in order  Place this element in the correct position

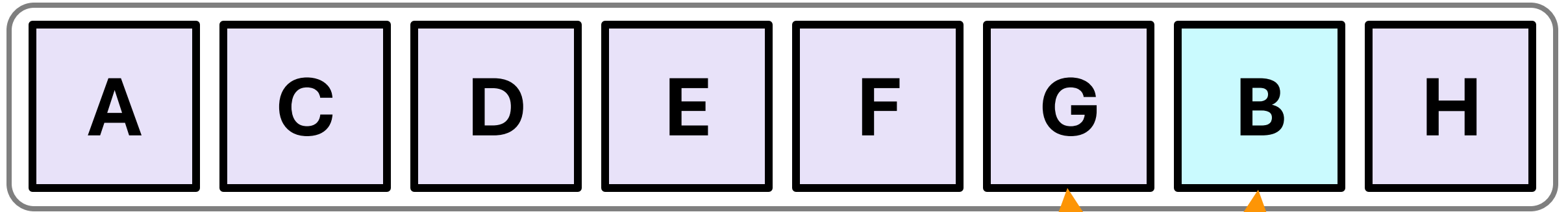




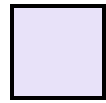
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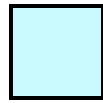
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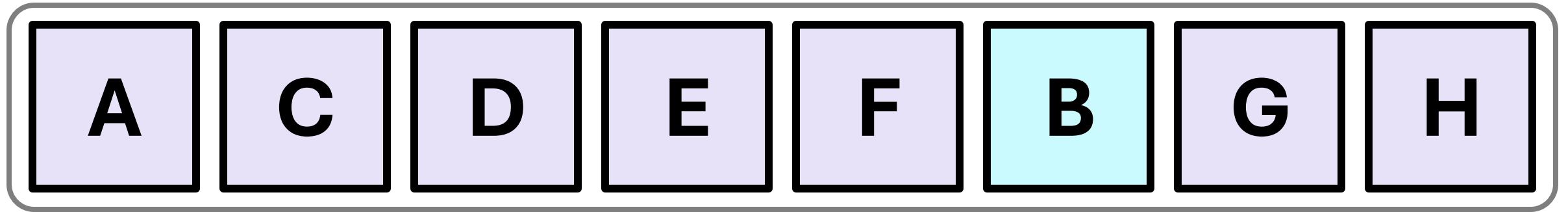
need to swap?
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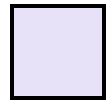


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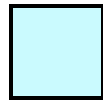


Place this element in the correct position

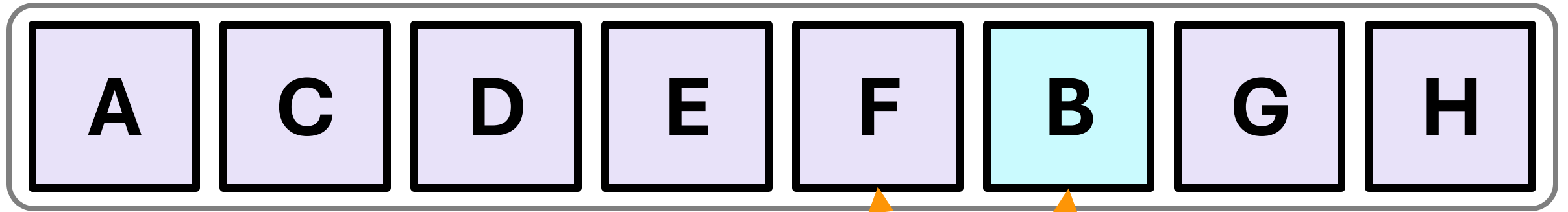




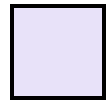
These elements are already in order



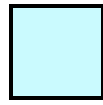
Place this element in the correct position



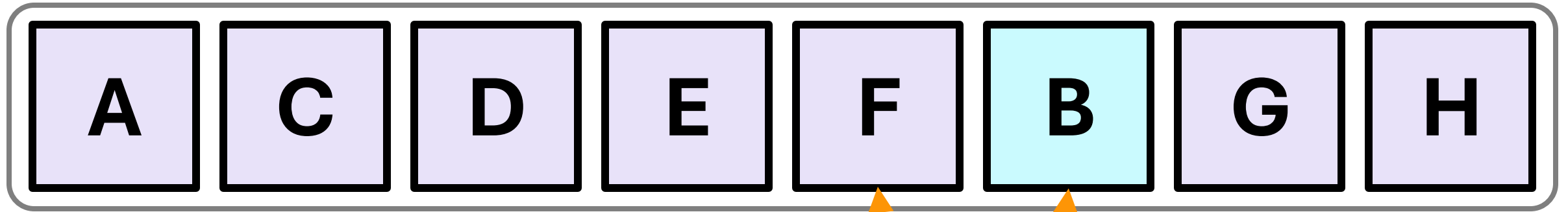
need to swap?



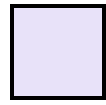
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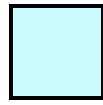
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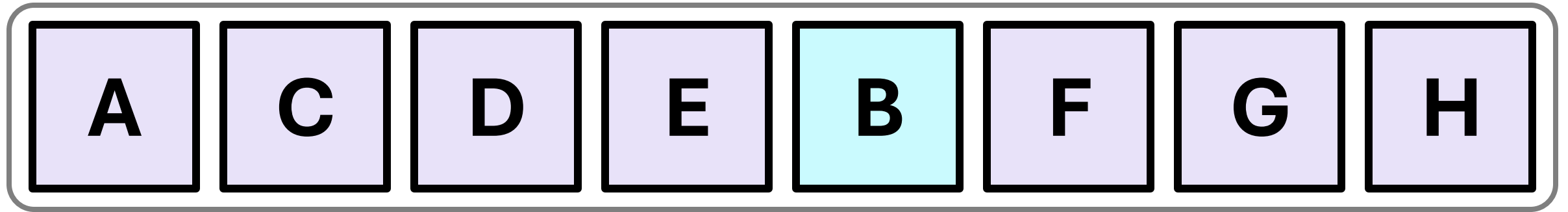
need to swap?
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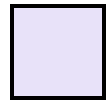


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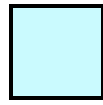


Place this element in the correct position

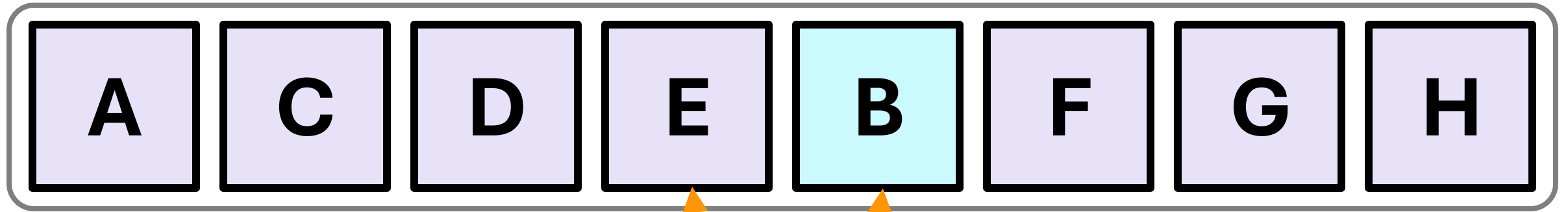




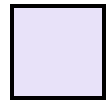
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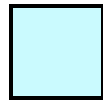
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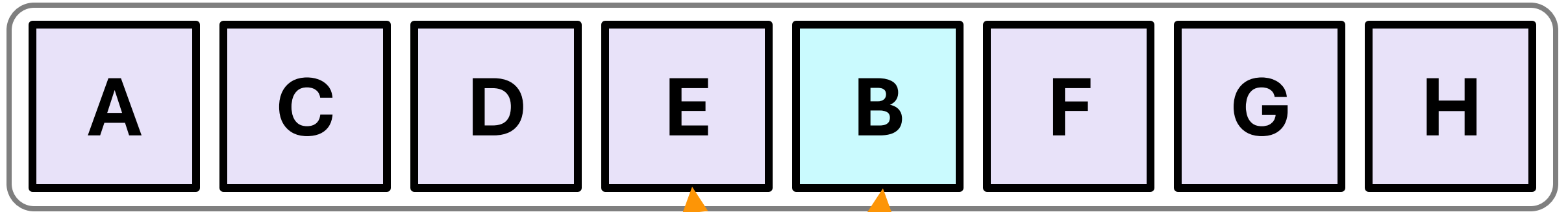
need to swap?



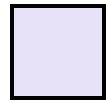
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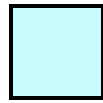
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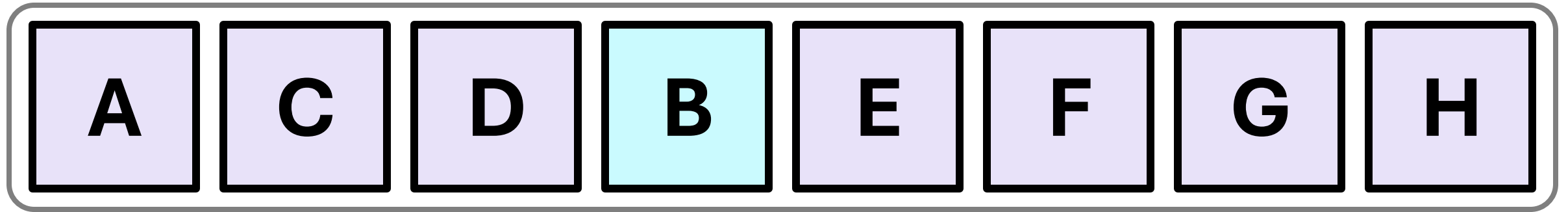
need to swap?
YES!

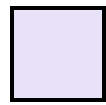


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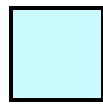


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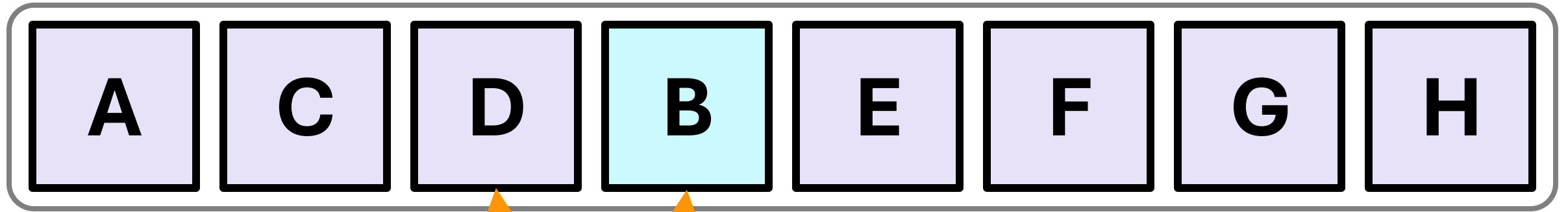




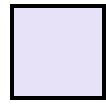
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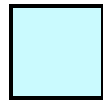
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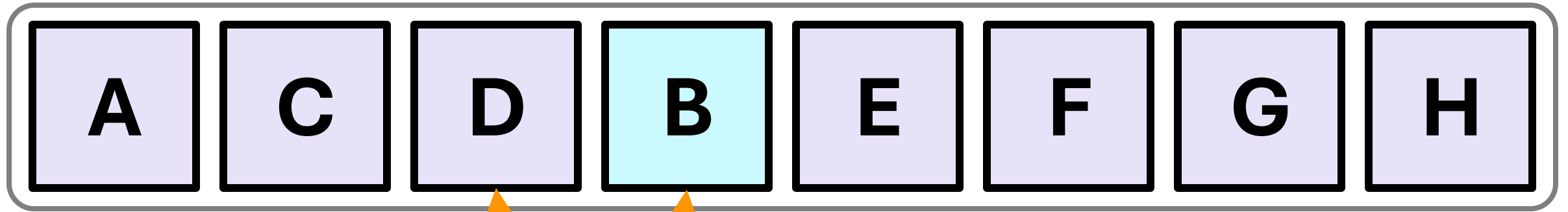
need to swap?



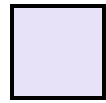
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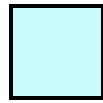
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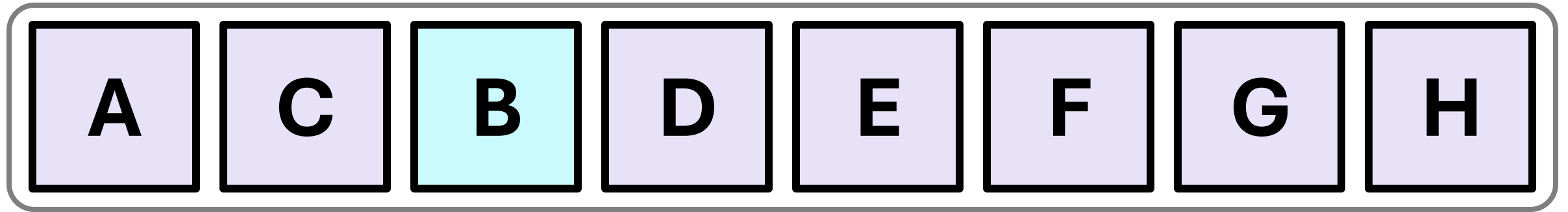
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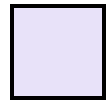


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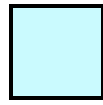


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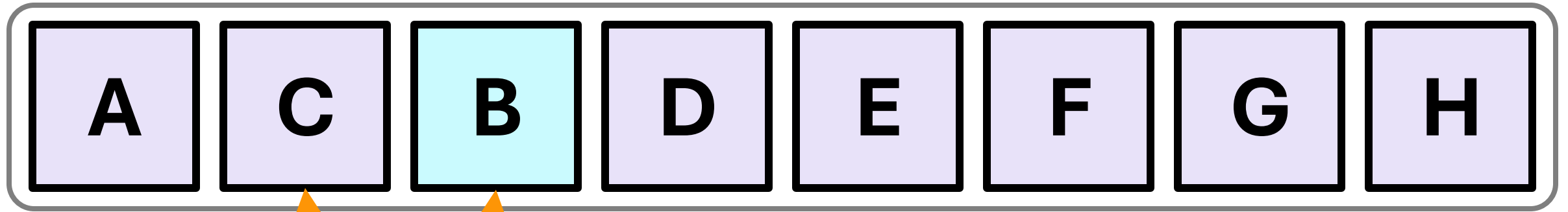




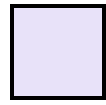
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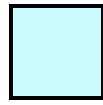
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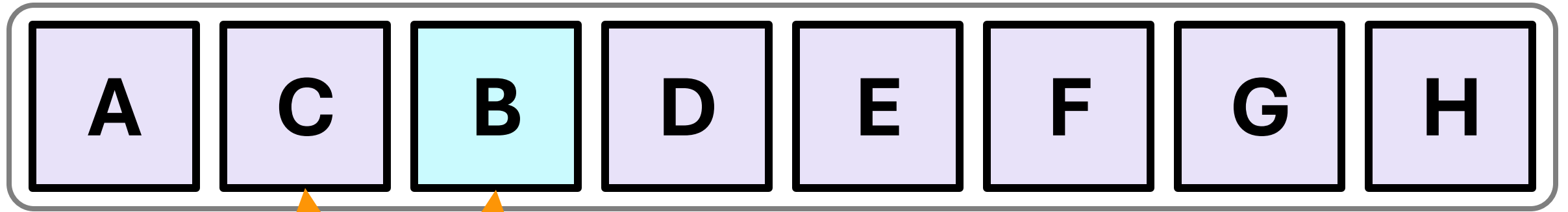
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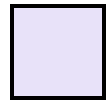
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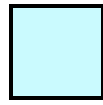
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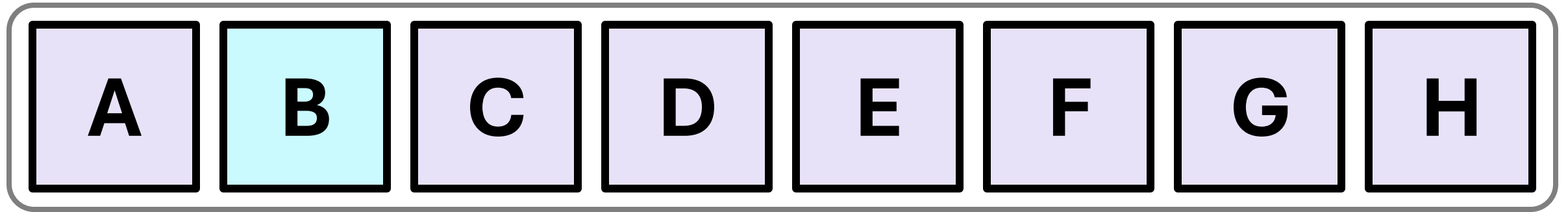
need to swap?
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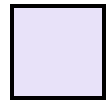


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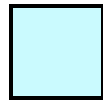


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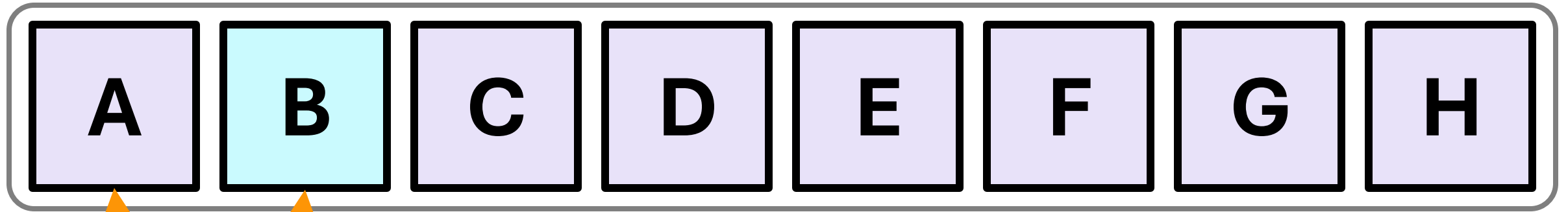




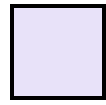
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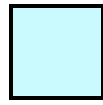
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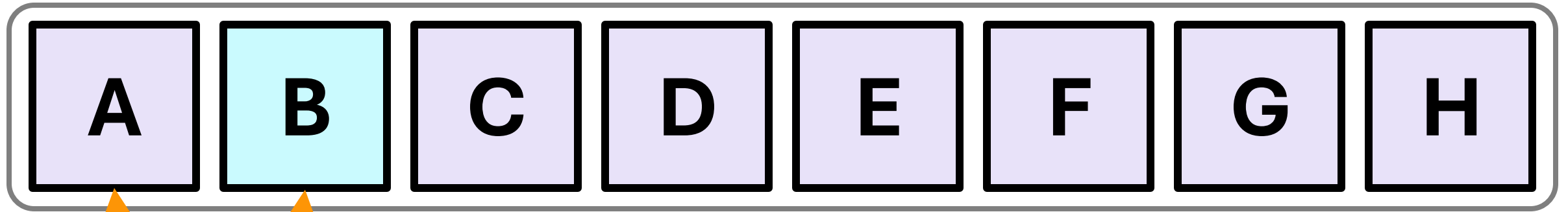
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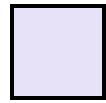
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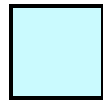
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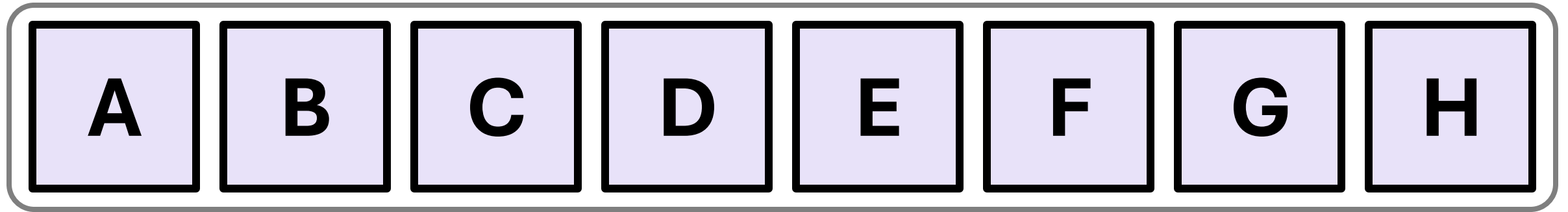
need to swap?
NO!



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Place this element in the correct position



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16

0

11

14

5

3

scatter in
buckets

initial buckets

0-4

0

3

5-9

7

5

10-14

12

11

14

15-19

16

sort buckets

sorted buckets

0-4

0

3

5-9

5

7

10-14

11

12

14

15-19

16

gather into
sorted array

final array

0

3

5

7

11

12

initial array

12

7

16

0

11

14

5

3

scatter in
buckets

initial buckets

0-4

0

3

5-9

7

5

10-14

12

11

14

15-19

16

sort buckets

sorted buckets

0-4

0

3

5-9

5

7

10-14

11

12

14

15-19

16

gather into
sorted array

final array

0

3

5

7

11

12

14

initial array

12

7

16

0

11

14

5

3

scatter in
buckets

initial buckets

0-4

0

3

5-9

7

5

10-14

12

11

14

15-19

16

sort buckets

sorted buckets

0-4

0

3

5-9

5

7

10-14

11

12

14

15-19

16

gather into
sorted array

final array

0

3

5

7

11

12

14

initial array

12

7

16

0

11

14

5

3

scatter in
buckets

initial buckets

0-4

0

3

5-9

7

5

10-14

12

11

14

15-19

16

sort buckets

sorted buckets

0-4

0

3

5-9

5

7

10-14

11

12

14

15-19

16

gather into
sorted array

final array

0

3

5

7

11

12

14

16

initial array

12

7

16

0

11

14

5

3

scatter in
buckets

initial buckets

0-4

0

3

5-9

7

5

10-14

12

11

14

15-19

16

sort buckets

sorted buckets

0-4

0

3

5-9

5

7

10-14

11

12

14

15-19

16

gather into
sorted array

final array

0

3

5

7

11

12

14

16

Radix Sort

initial array

429

431

652

102

71

500

918

602

initial array

429

431

652

102

071

500

918

602



Pass 1: _ _ x

0		5	
1		6	
2		7	
3		8	
4		9	

initial array

429

431

652

102

071

500

918

602



Pass 1: _ _ x

0		5	
1		6	
2		7	
3		8	
4		9	

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1		6	
2		7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1		6	
2		7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431	6	
2		7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431	6	
2		7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431	6	
2	652	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431	6	
2	652	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431	6	
2	652 102	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431	6	
2	652 102	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431 071	6	
2	652 102	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0		5	
1	431 071	6	
2	652 102	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0	500	5	
1	431 071	6	
2	652 102	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0	500	5	
1	431 071	6	
2	652 102	7	
3		8	
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0	500	5	
1	431 071	6	
2	652 102	7	
3		8	918
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0	500	5	
1	431 071	6	
2	652 102	7	
3		8	918
4		9	429

initial array

429	431	652	102	071	500	918	602
-----	-----	-----	-----	-----	-----	-----	-----



Pass 1: _ _ x

0	500	5	
1	431 071	6	
2	652 102 602	7	
3		8	918
4		9	429

initial array

429

431

652

102

071

500

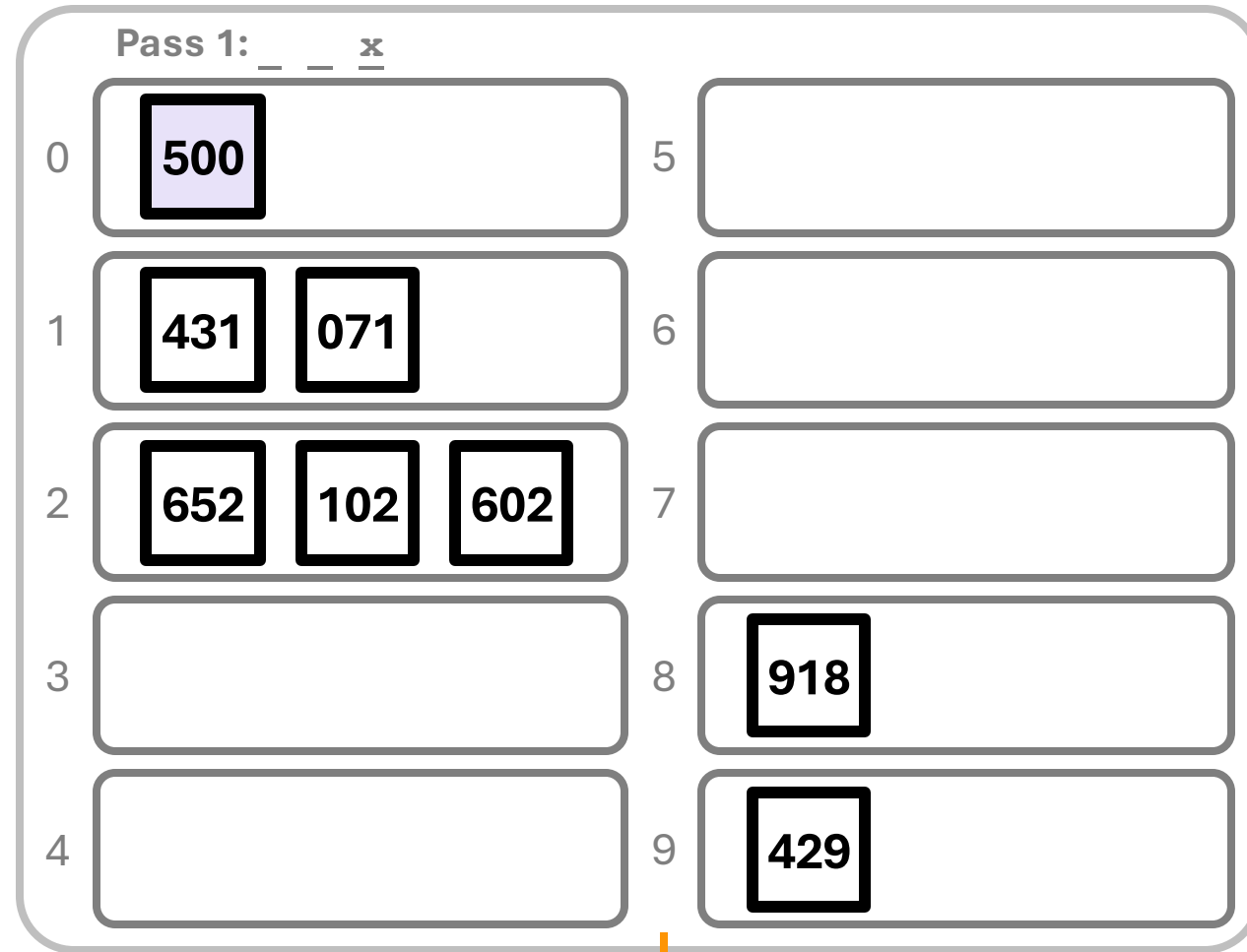
918

602

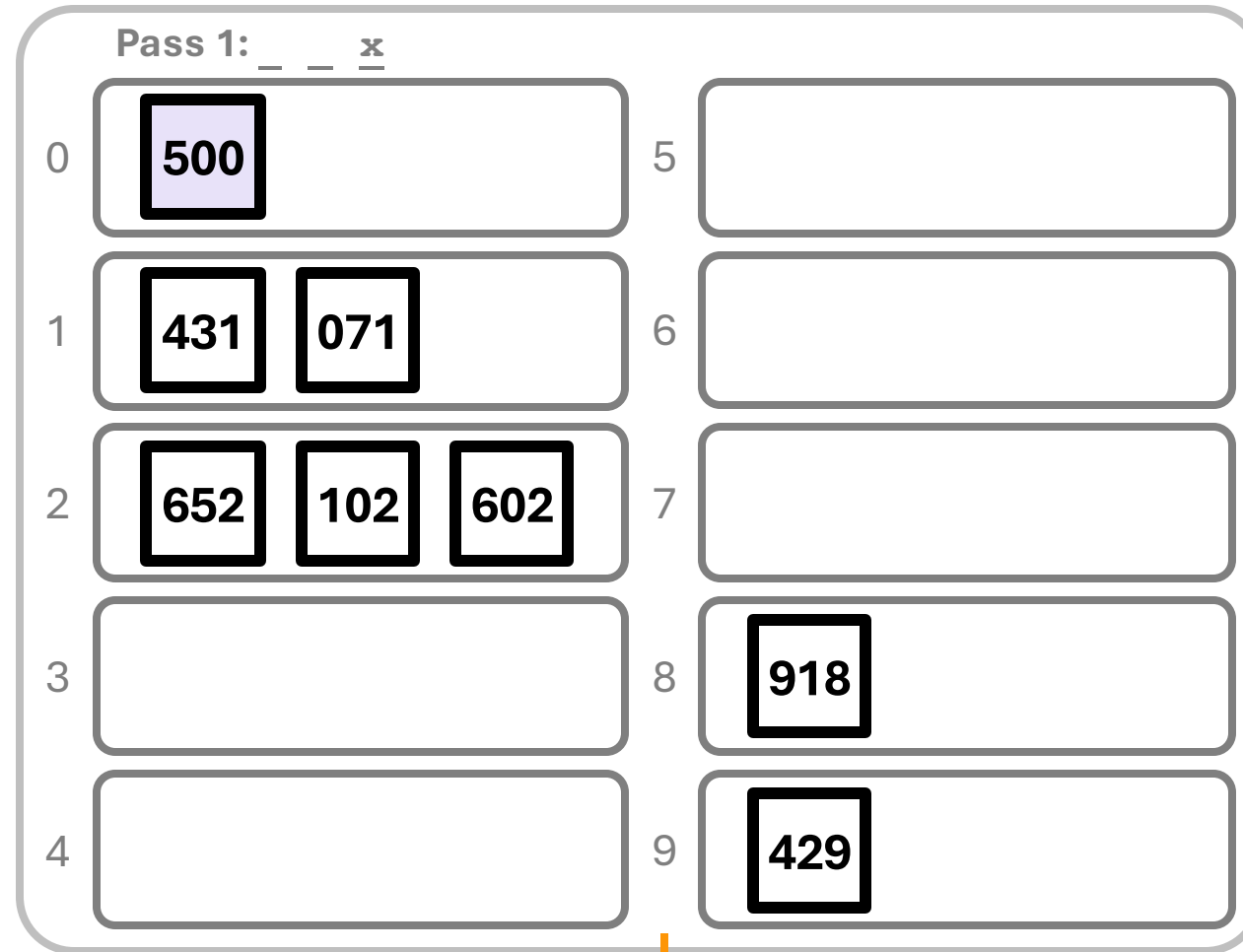


Pass 1: _ _ x

0	500	5	
1	431 071	6	
2	652 102 602	7	
3		8	918
4		9	429

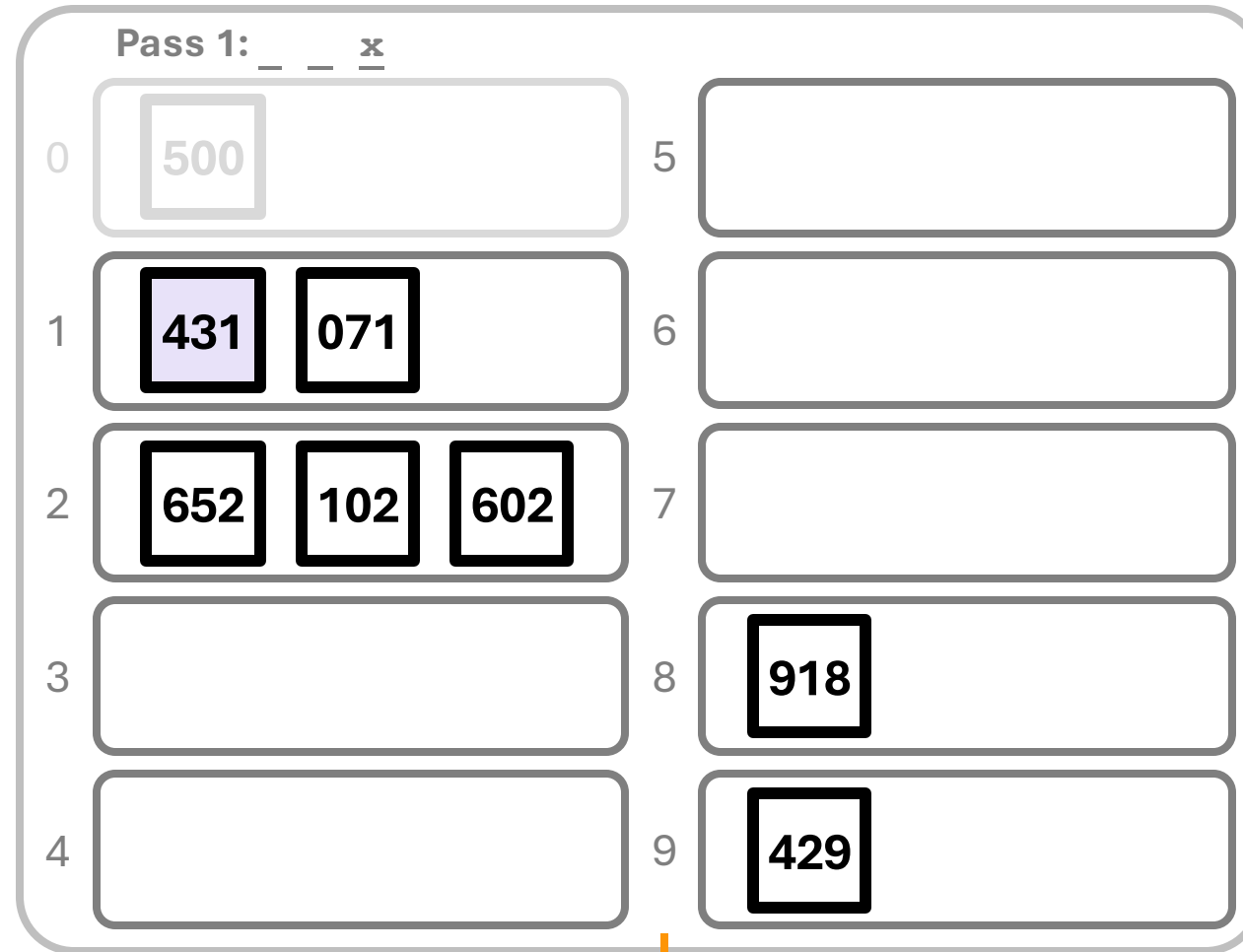


after pass 1



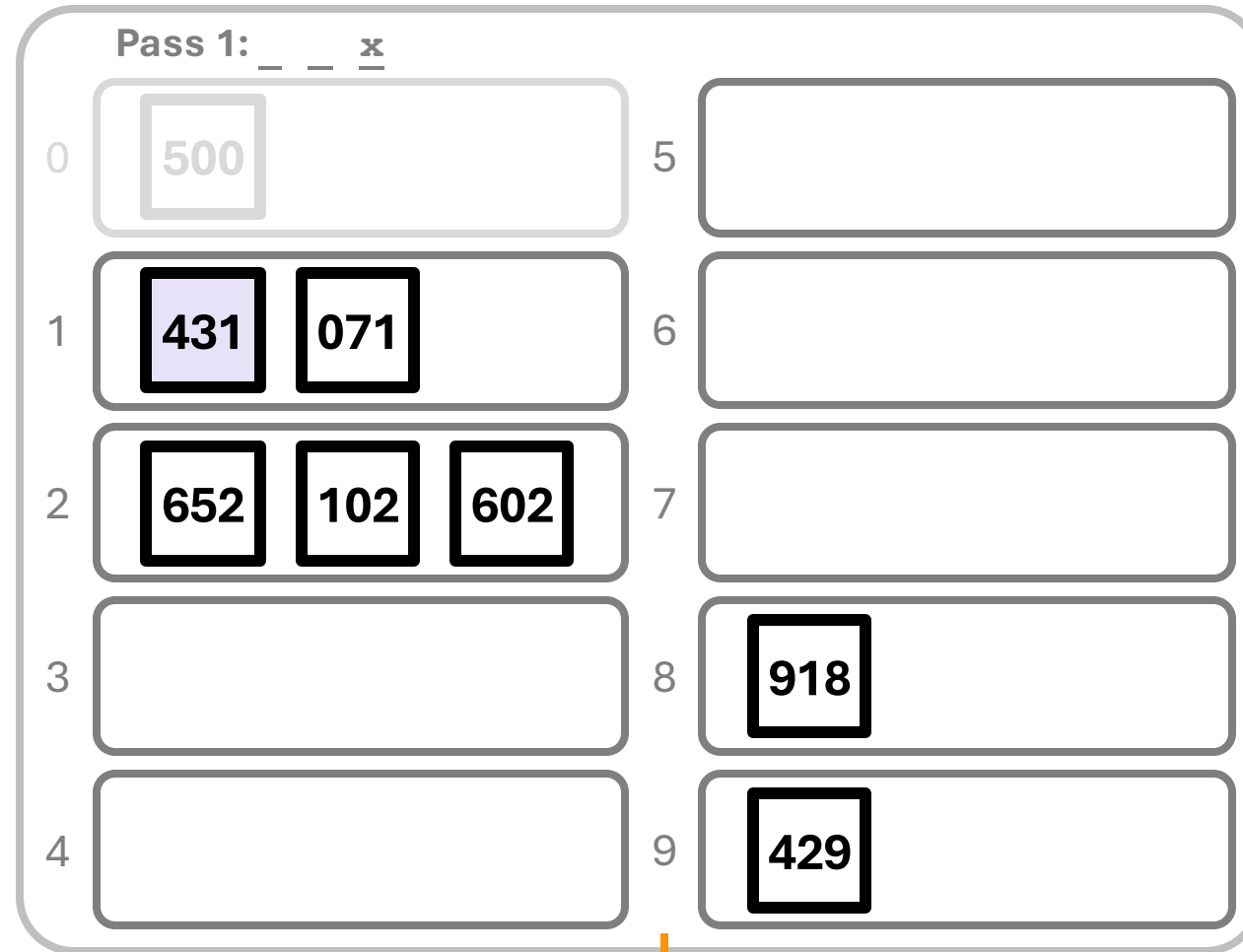
after pass 1

500

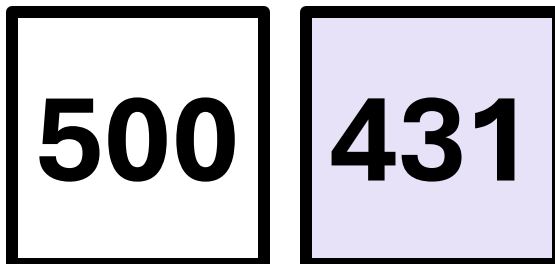


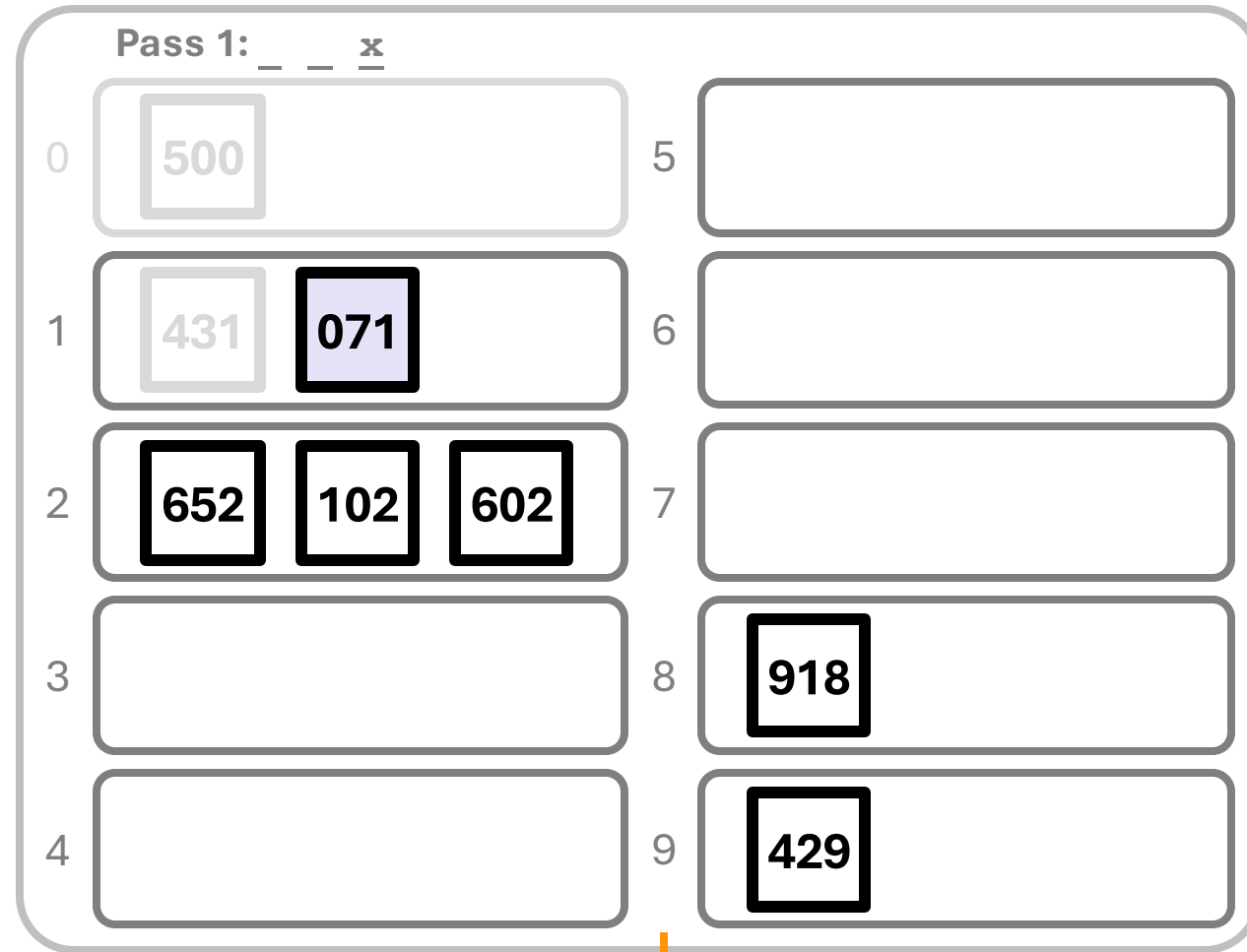
after pass 1

500



after pass 1

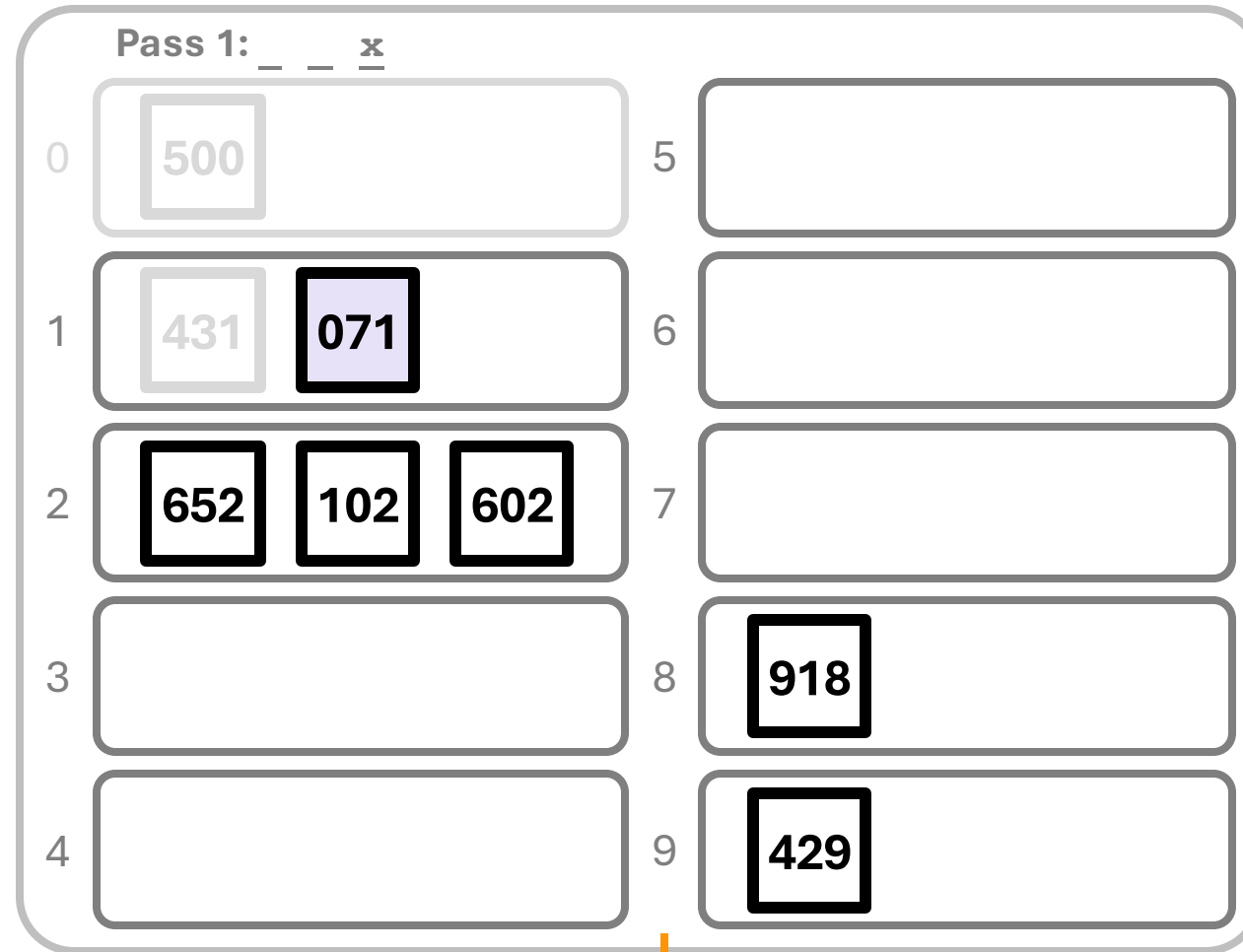




after pass 1

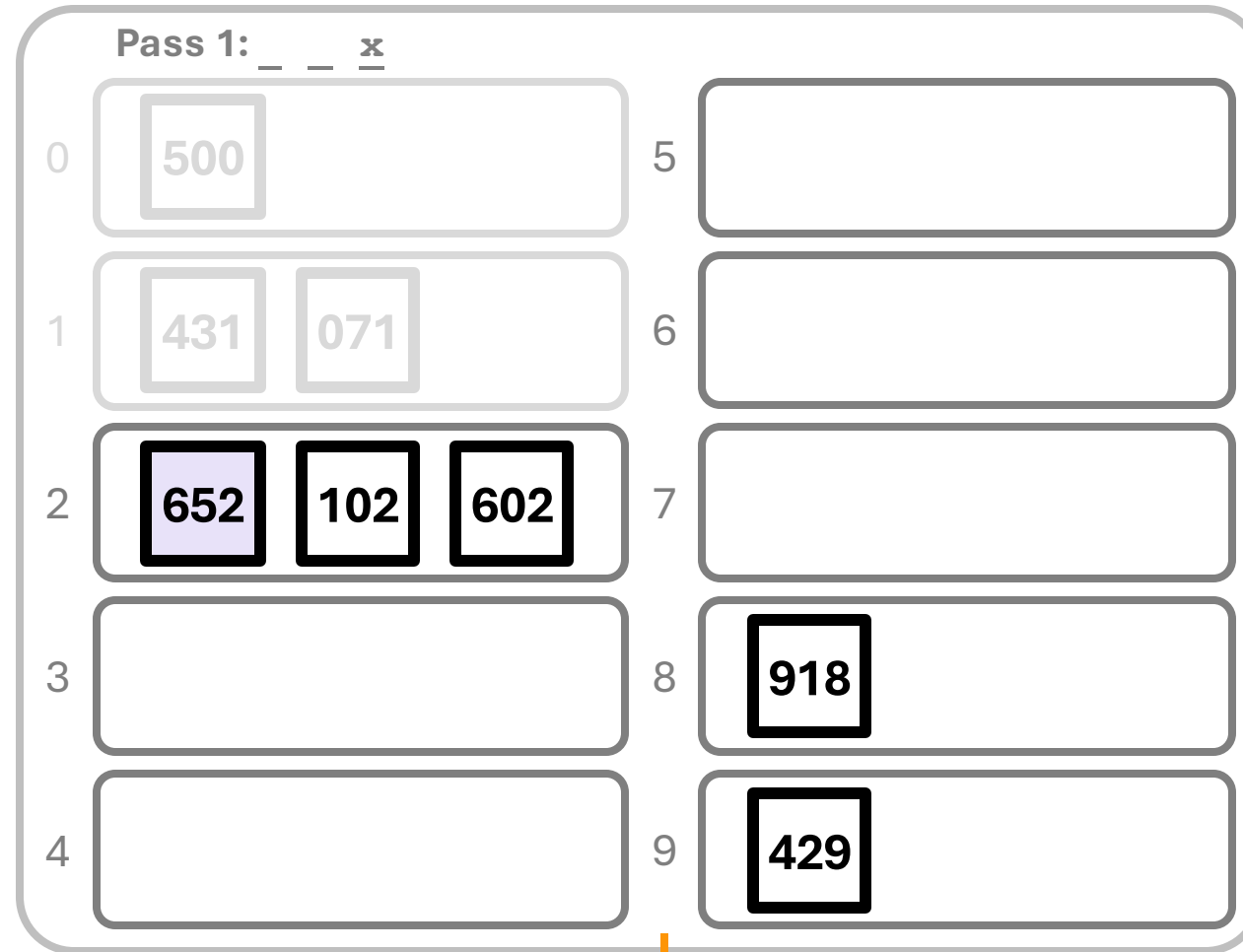
500

431



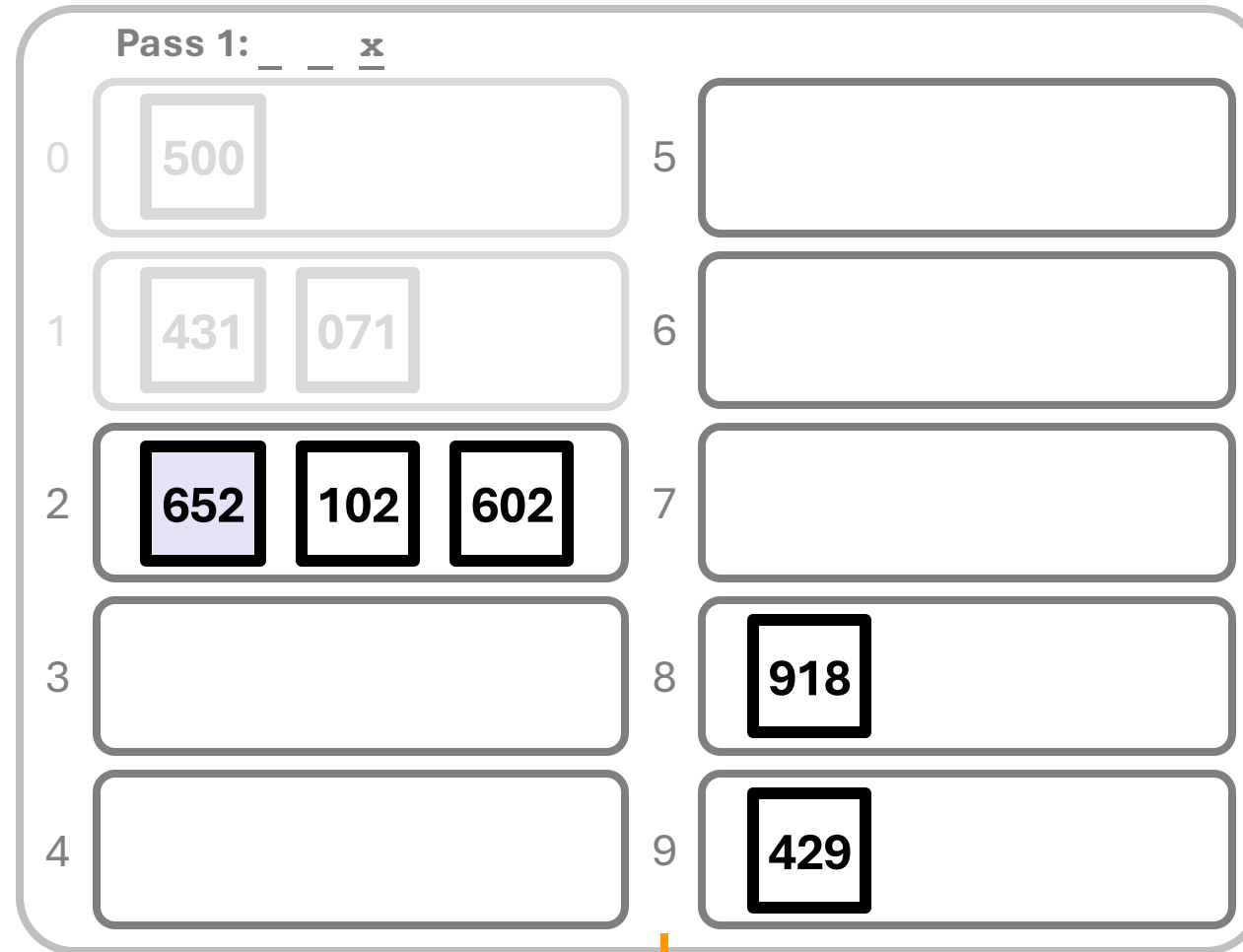
after pass 1



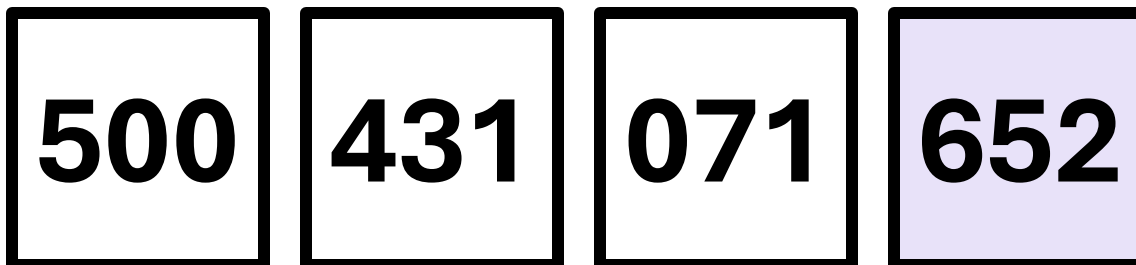


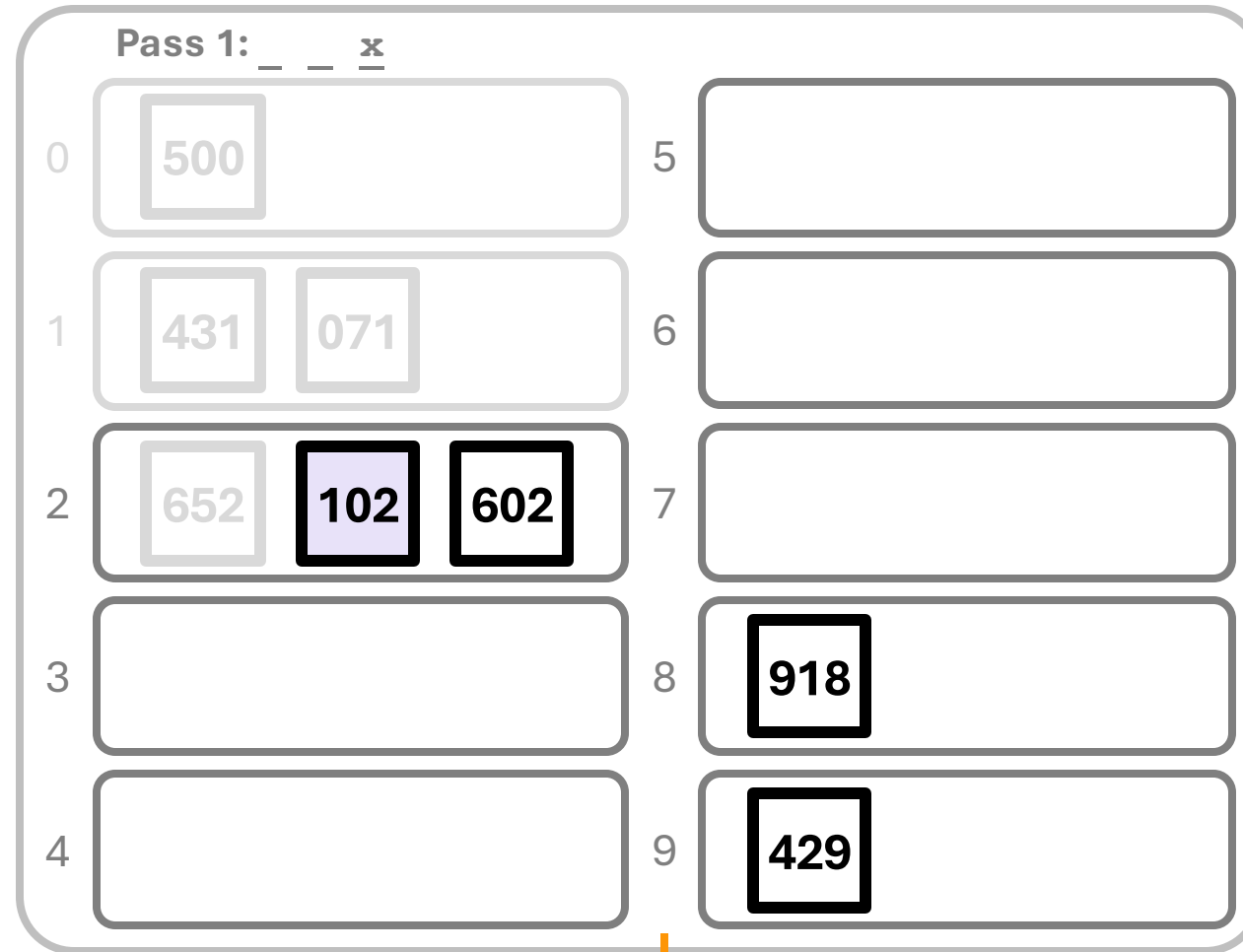
after pass 1





after pass 1





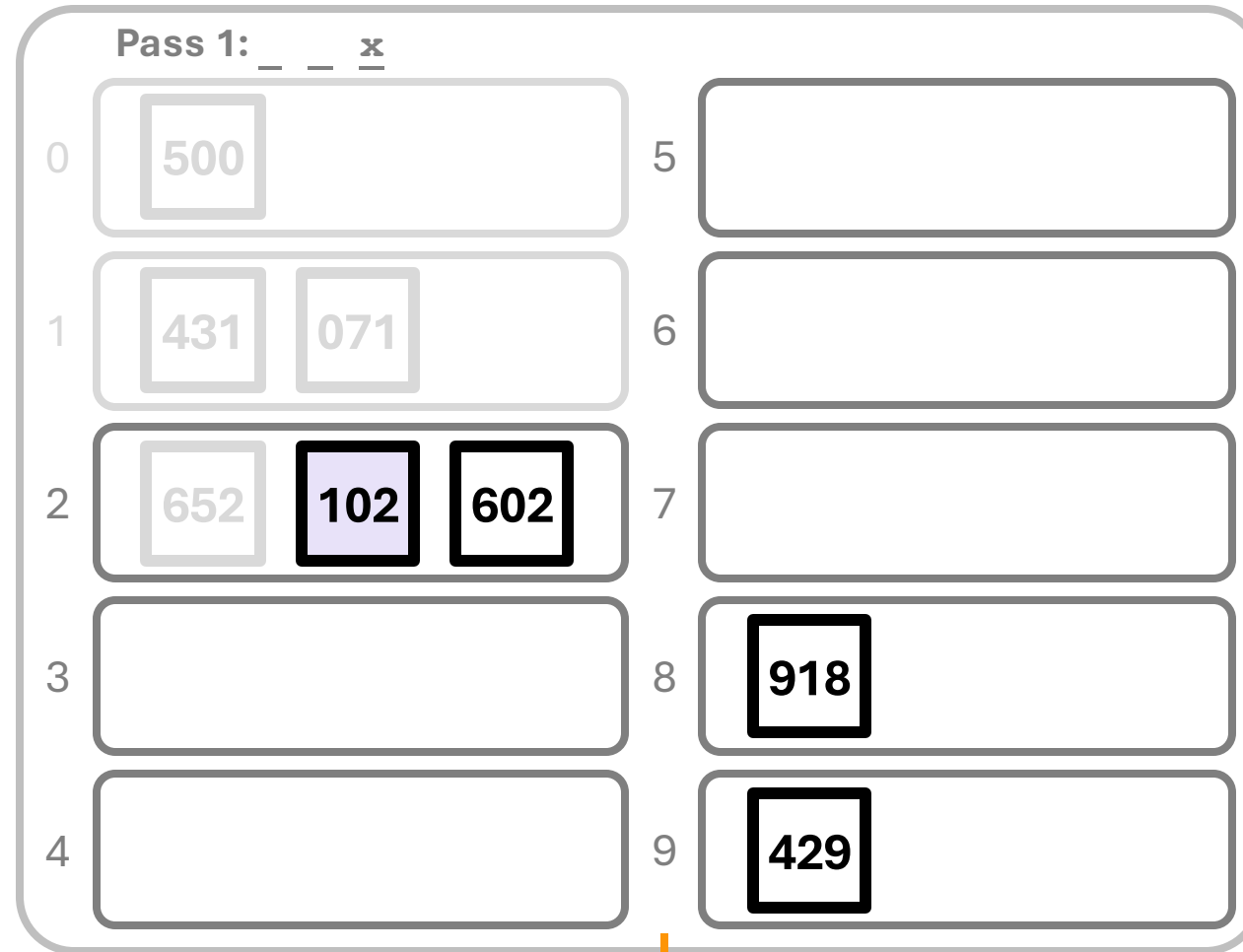
after pass 1

500

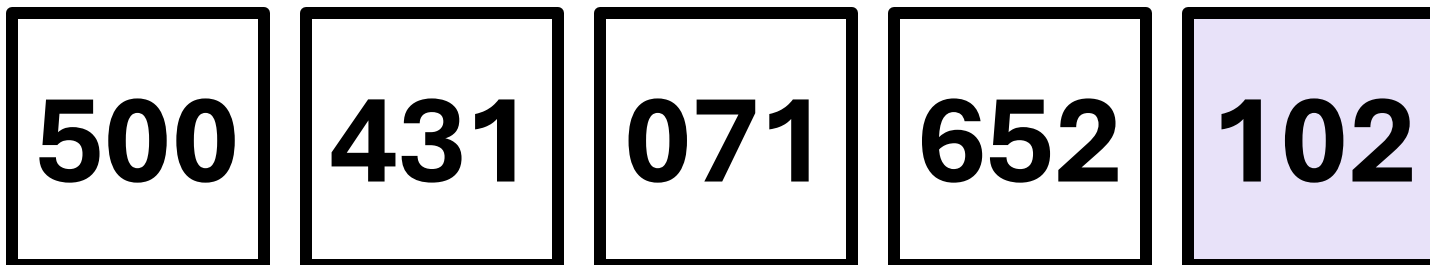
431

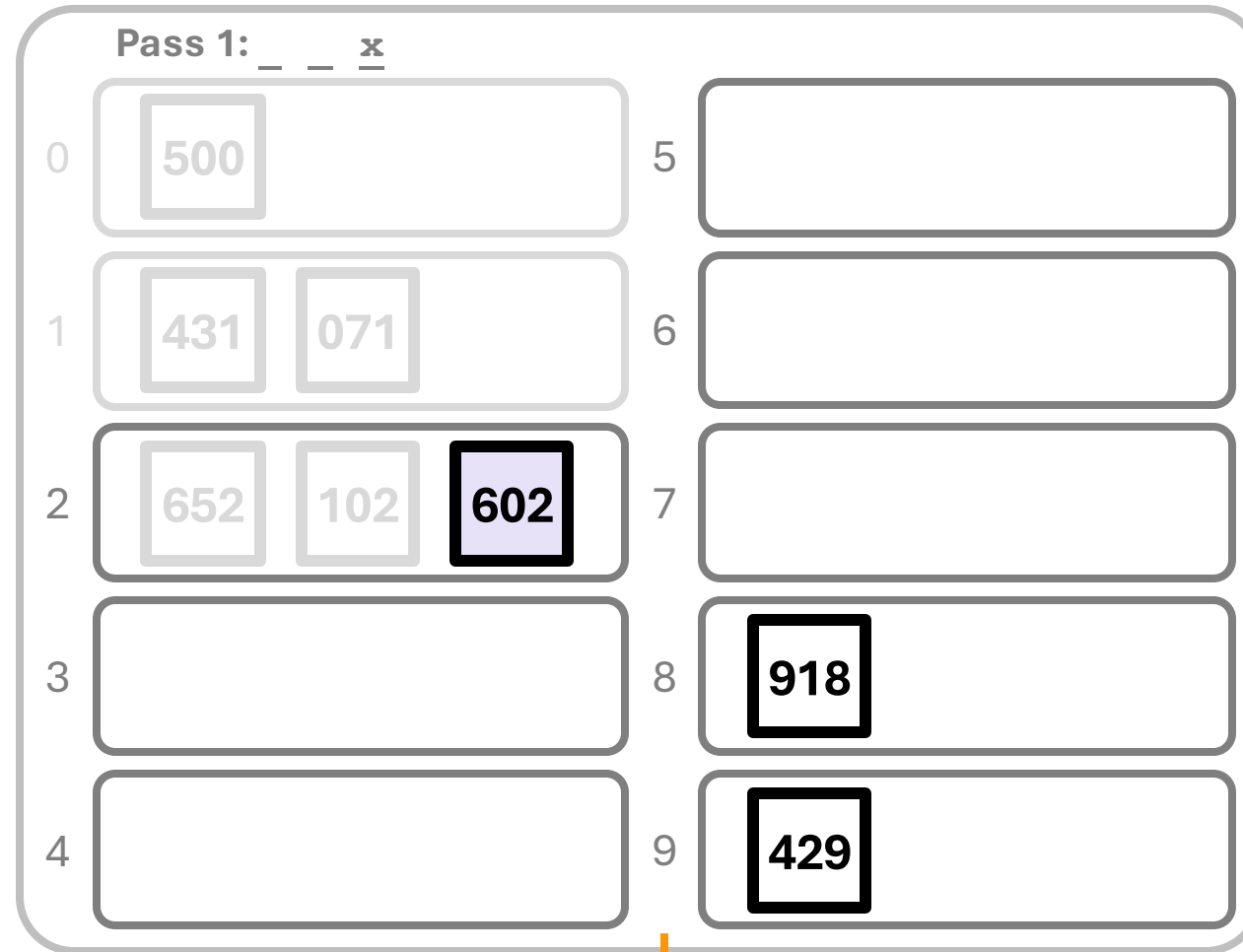
071

652

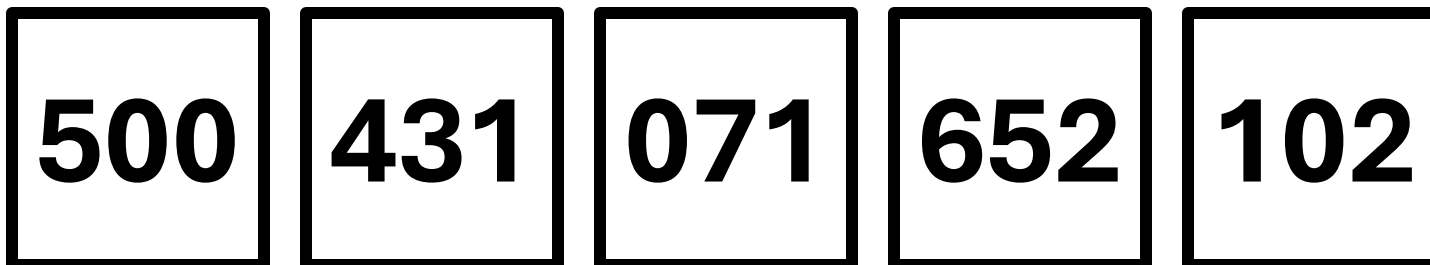


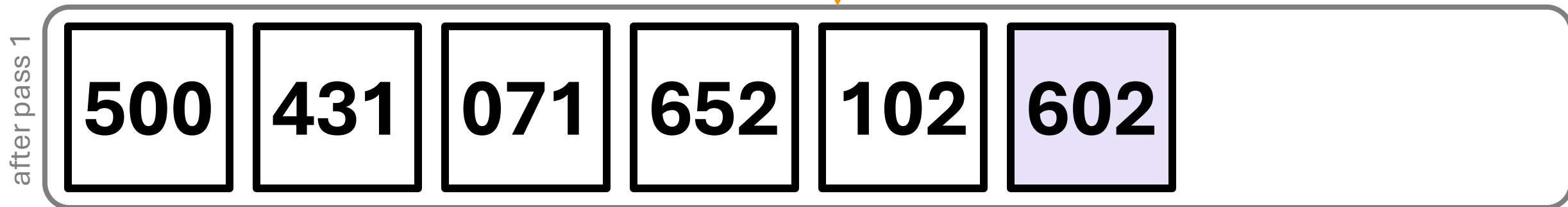
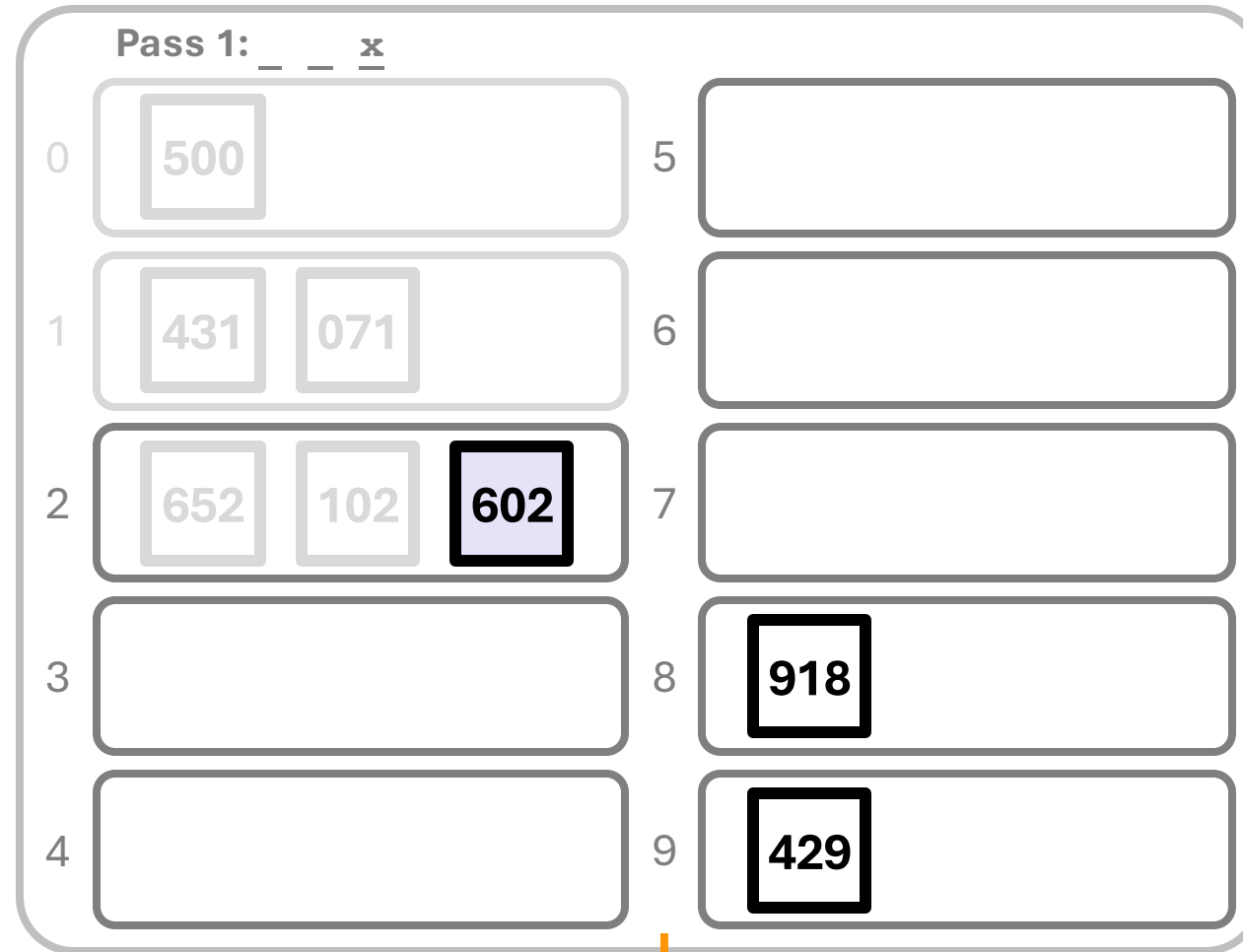
after pass 1





after pass 1







after pass 1

500

431

071

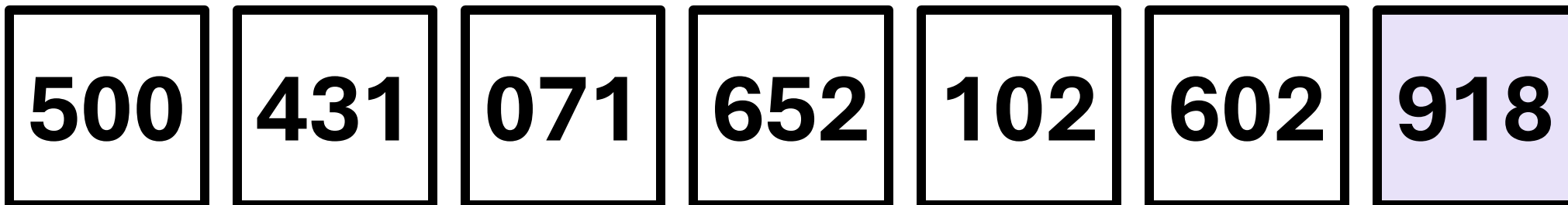
652

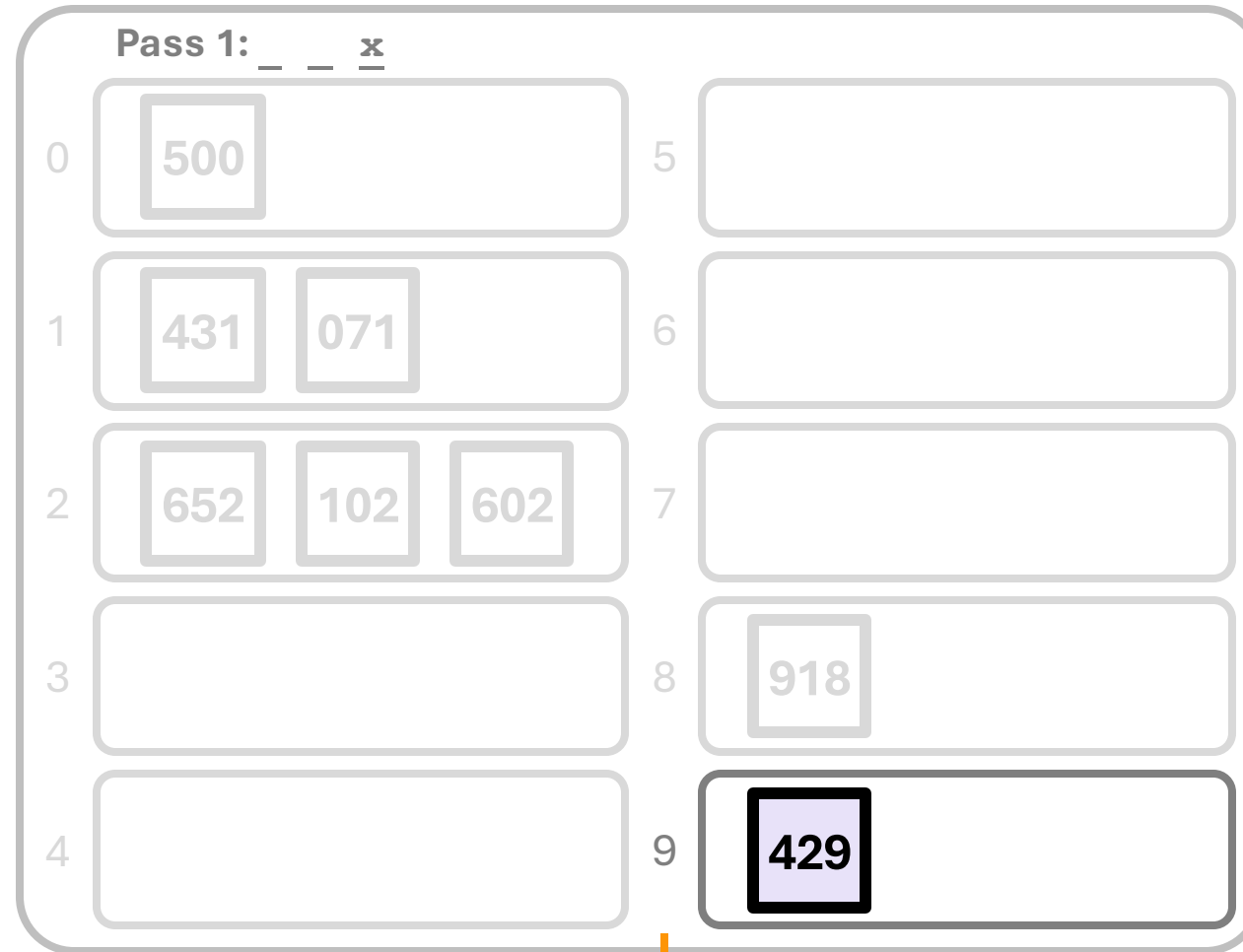
102

602



after pass 1





after pass 1

500

431

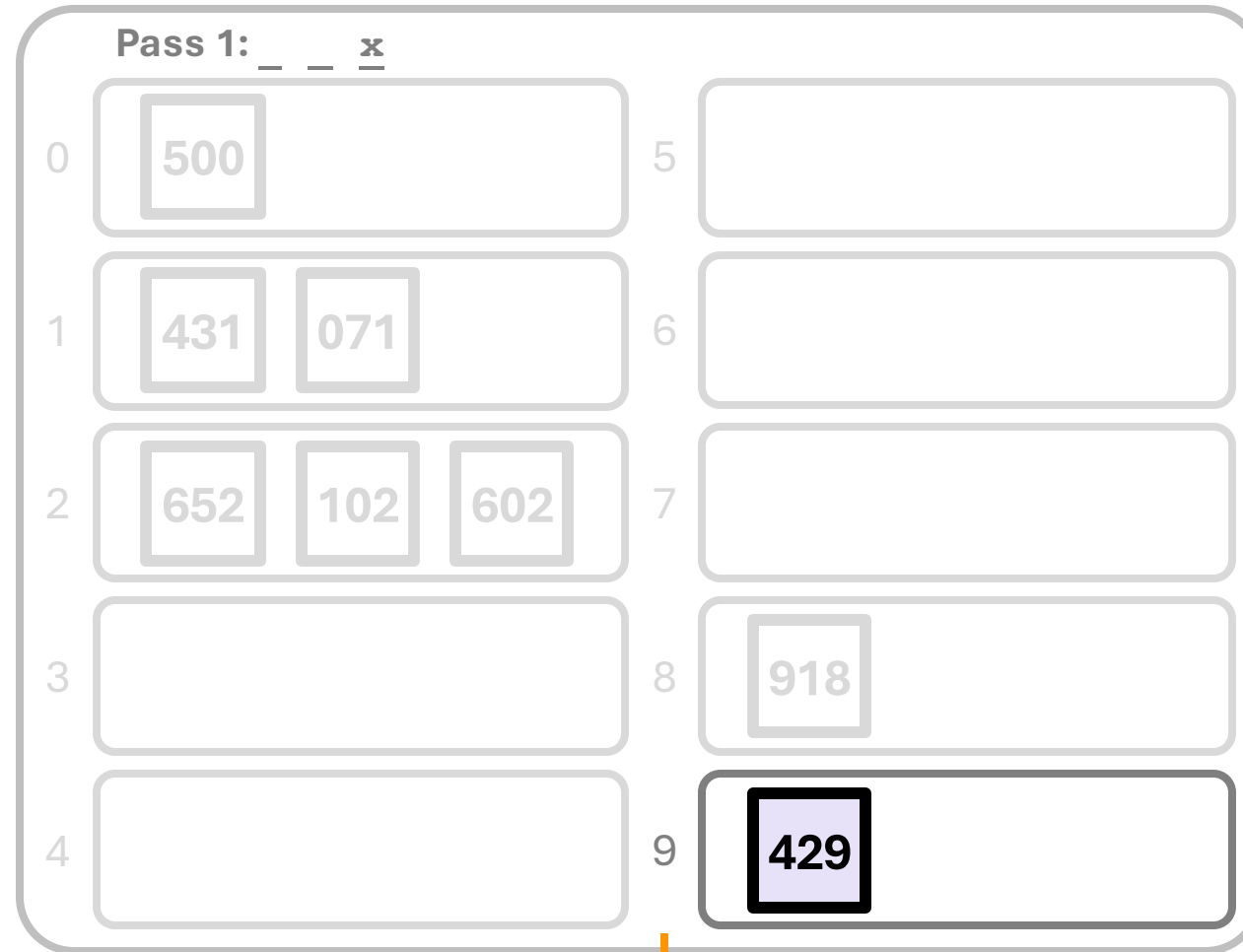
071

652

102

602

918



after pass 1

500

431

071

652

102

602

918

429



after pass 1

500

431

071

652

102

602

918

429

after pass 1

500	431	071	652	102	602	918	429
-----	-----	-----	-----	-----	-----	-----	-----

after pass 1

500	431	071	652	102	602	918	429
-----	-----	-----	-----	-----	-----	-----	-----



Pass 2: _ <u>x</u> _		
0		5
1		6
2		7
3		8
4		9

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0		5	
1		6	
2		7	
3		8	
4		9	

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0	500	5	
1		6	
2		7	
3		8	
4		9	

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0

500

5

1

6

2

7

3

8

4

9

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0	500	5	
1		6	
2		7	
3	431	8	
4		9	

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0

500

5

1

6

2

7

3

431

8

4

9

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0	500	5	
1		6	
2		7	071
3	431	8	
4		9	

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ 5 _

0

500

5

1

6

2

7

071

3

431

8

4

9

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0

500

5

652

1

6

2

7

071

3

431

8

4

9

after pass 1

500	431	071	652	102	602	918	429
-----	-----	-----	-----	-----	-----	-----	-----



Pass 2: _ <u>x</u> _			
0	500	5	652
1		6	
2		7	071
3	431	8	
4		9	

after pass 1

500	431	071	652	102	602	918	429
-----	-----	-----	-----	-----	-----	-----	-----



Pass 2: <u> x </u>				
0	500	102	5	652
1			6	
2			7	071
3	431		8	
4			9	

after pass 1

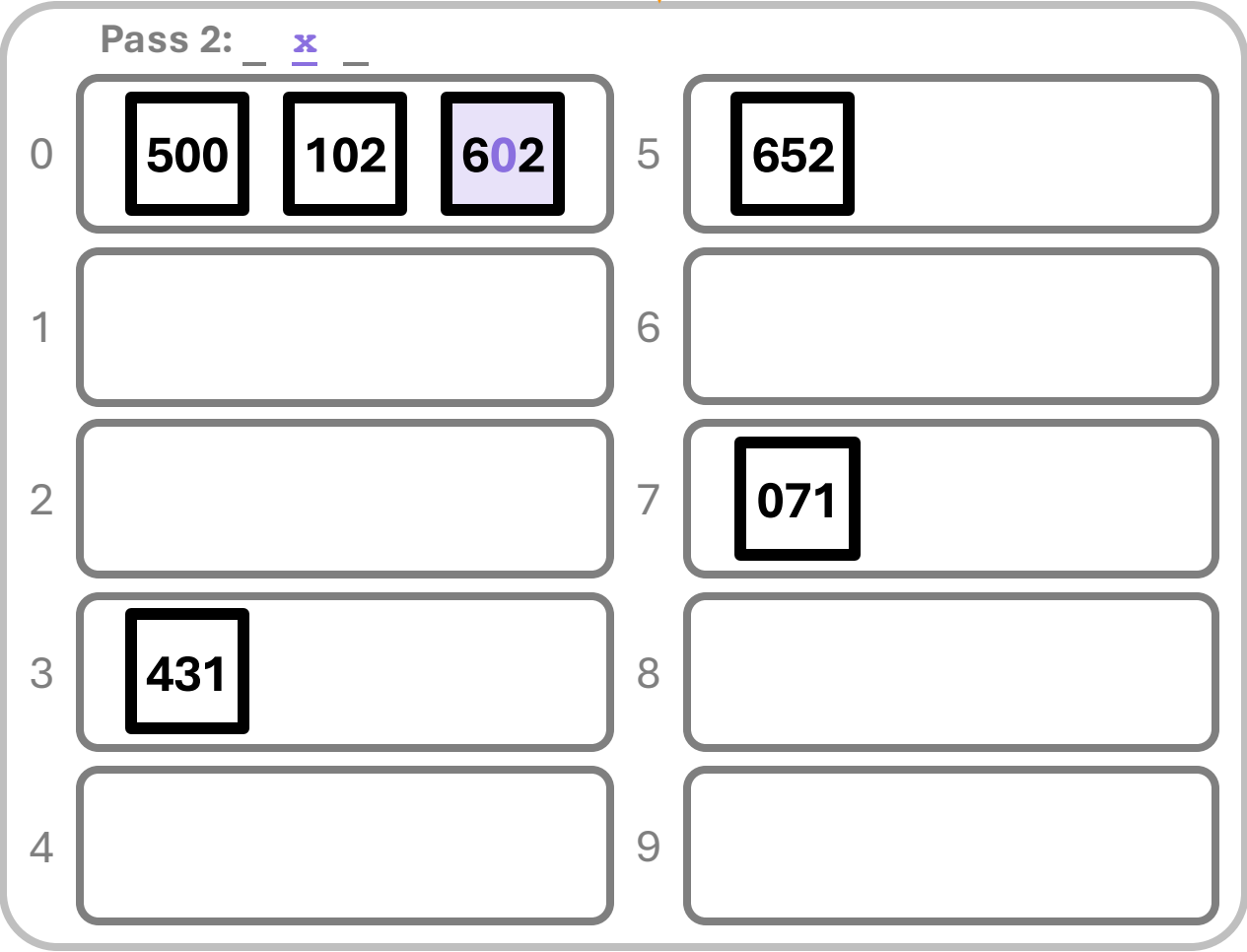
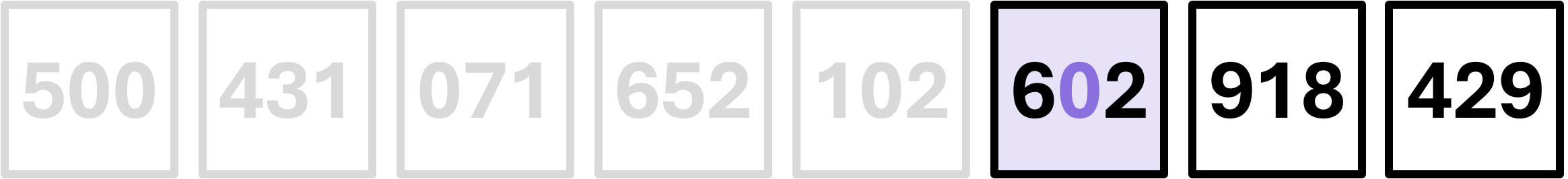
500	431	071	652	102	602	918	429
-----	-----	-----	-----	-----	-----	-----	-----



Pass 2: _ x _

0	500 102	5	652
1		6	
2		7	071
3	431	8	
4		9	

after pass 1



after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0	500	102	602	5	652
1				6	
2				7	071
3	431			8	
4				9	

after pass 1

500

431

071

652

102

602

918

429



Pass 2: _ x _

0

500

102

602

5

652

1

918

6

2

7

071

3

431

8

4

9

after pass 1

500

431

071

652

102

602

918

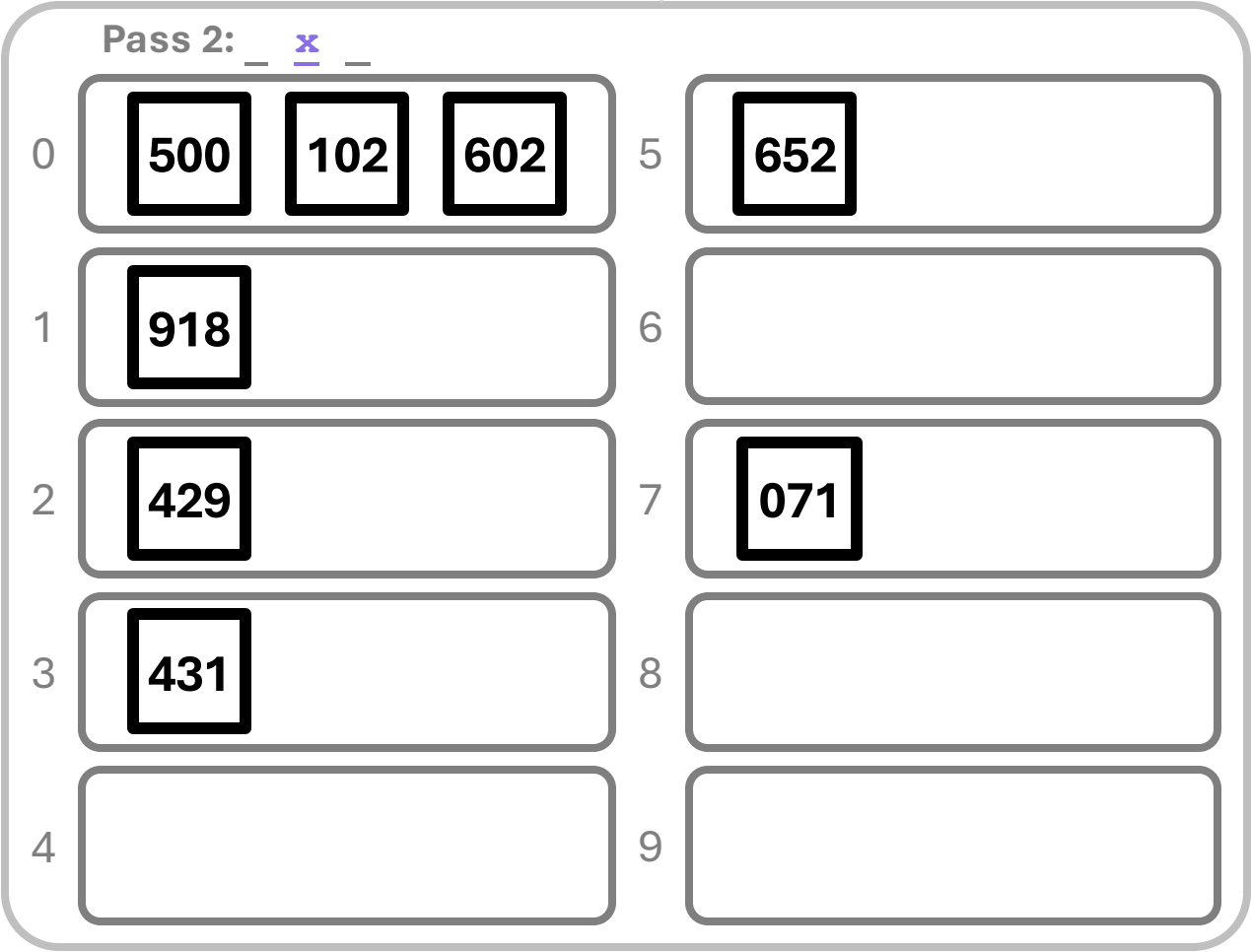
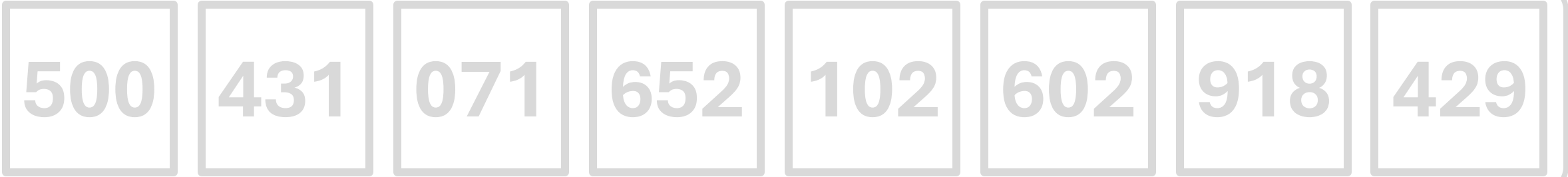
429



Pass 2: _ x _

0	500	102	602	5	652
1	918			6	
2	429			7	071
3	431			8	
4				9	

after pass 1



Pass 2: _ x _

0

500

102

602

5

652

1

918

6

2

429

7

071

3

431

8

4

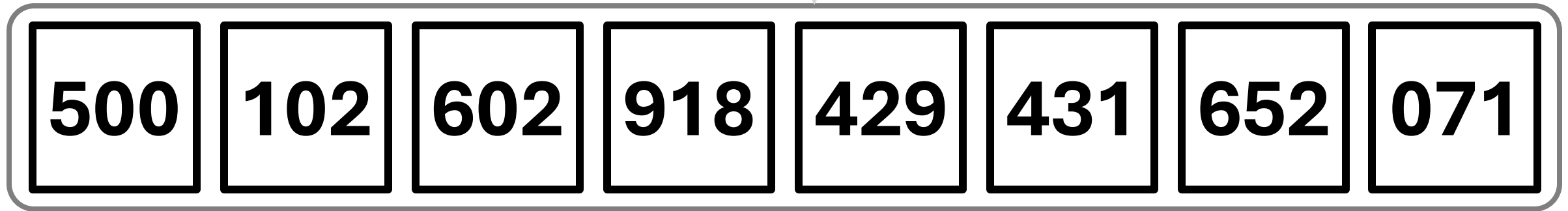
9



after pass 2



after pass 2



after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: <u>x</u> _ _		
0		5
1		6
2		7
3		8
4		9

after pass 2

500

102

602

918

429

431

652

071



Pass 3: x _ _

0		5	
1		6	
2		7	
3		8	
4		9	

after pass 2

500

102

602

918

429

431

652

071



Pass 3: x _ _

0		5	500
1		6	
2		7	
3		8	
4		9	

after pass 2

500

102

602

918

429

431

652

071



Pass 3: x _ _

0

5

500

1

6

2

7

3

8

4

9

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: x _ _

0		5	500
1	102	6	
2		7	
3		8	
4		9	

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: <u>x</u> _ _		
0		5 500
1	102	6
2		7
3		8
4		9

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: <u>x</u> _ _		
0		5 500
1	102	6 602
2		7
3		8
4		9

after pass 2

500

102

602

918

429

431

652

071



Pass 3: x _ _

0		5	500
1	102	6	602
2		7	
3		8	
4		9	

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: x _ _

0		5	500
1	102	6	602
2		7	
3		8	
4		9	918

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: x _ _

0		5	500
1	102	6	602
2		7	
3		8	
4		9	918

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: <u>x</u> _ _	
0	500
1	602
2	
3	
4	918

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: x _ _

0		5	500
1	102	6	602
2		7	
3		8	
4	429	9	918

after pass 2

500	102	602	918	429	431	652	071
-----	-----	-----	-----	-----	-----	-----	-----



Pass 3: x _ _

0		5	500
1	102	6	602
2		7	
3		8	
4	429 431	9	918

after pass 2

500

102

602

918

429

431

652

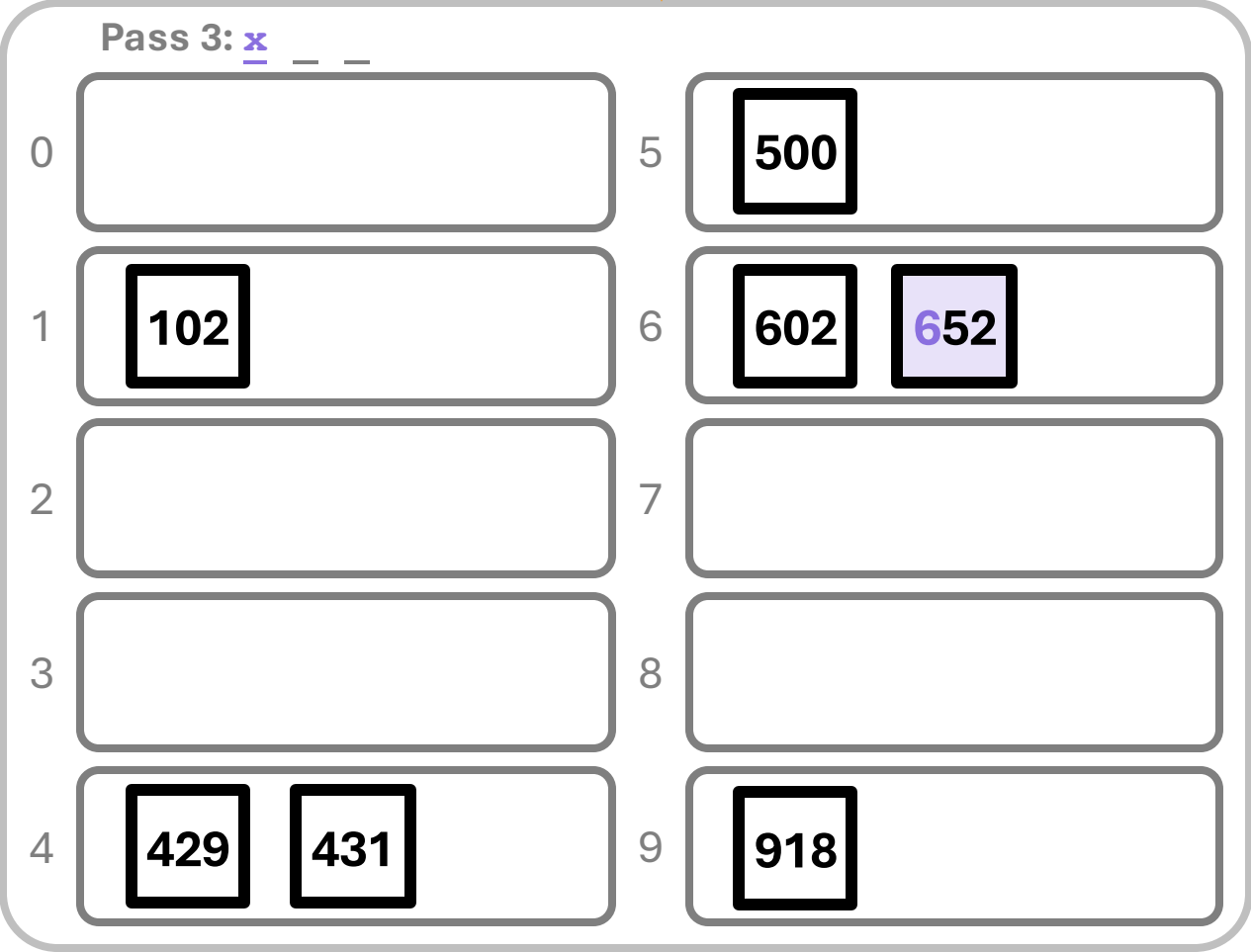
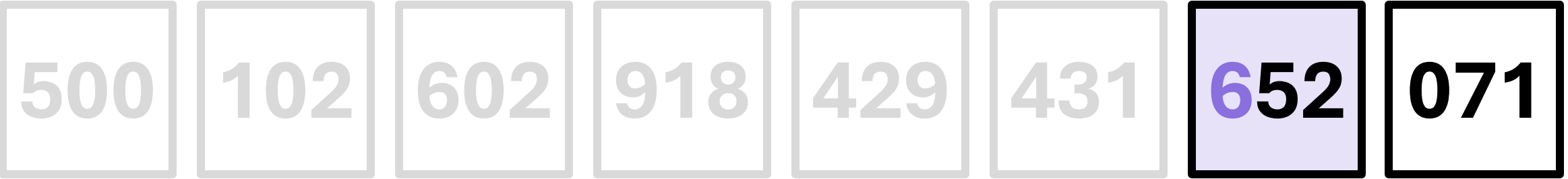
071



Pass 3: x _ _

0		5	500
1	102	6	602
2		7	
3		8	
4	429431	9	918

after pass 2



after pass 2

500

102

602

918

429

431

652

071



Pass 3: x _ _

0		5	500
1	102	6	602652
2		7	
3		8	
4	429431	9	918

after pass 2

500

102

602

918

429

431

652

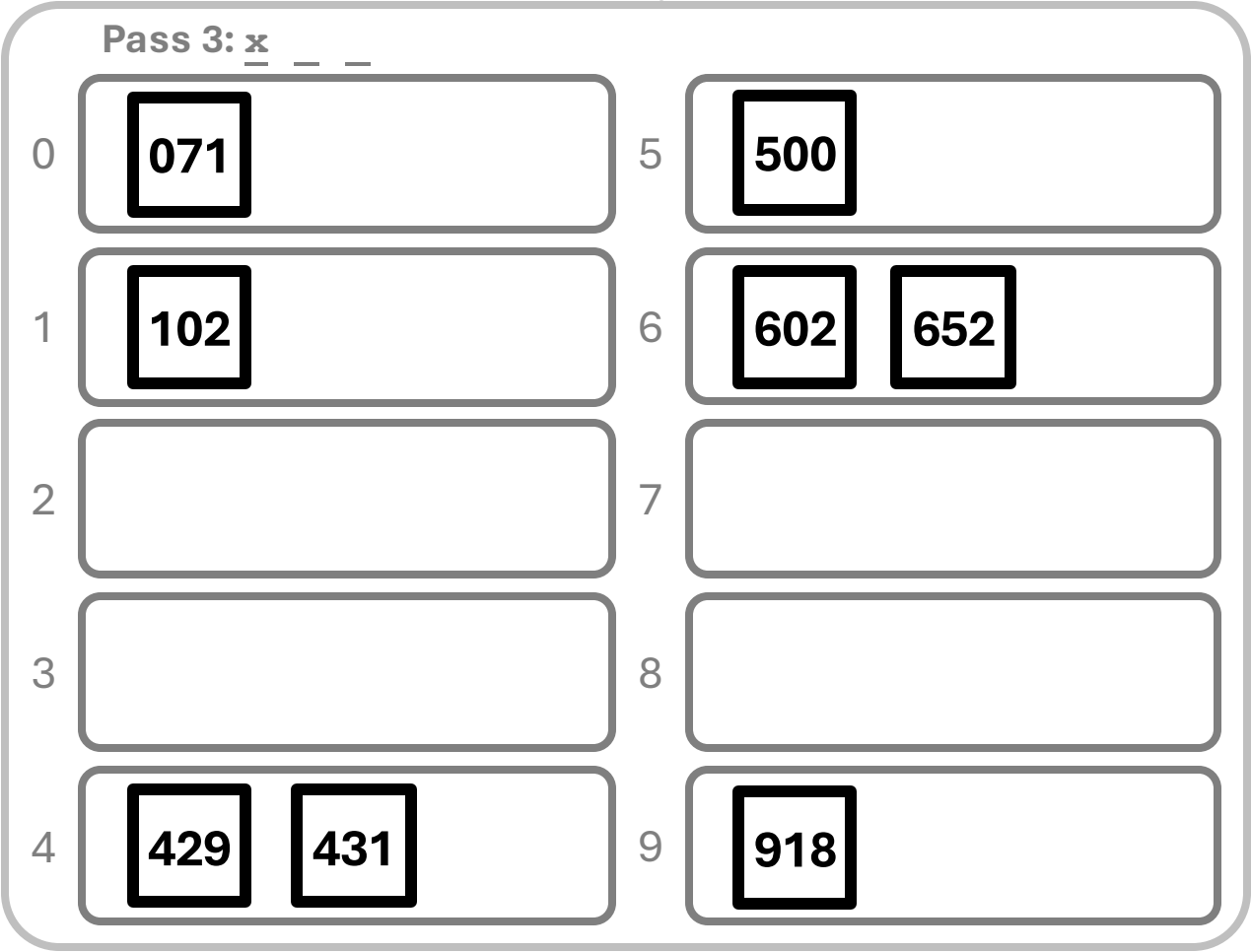
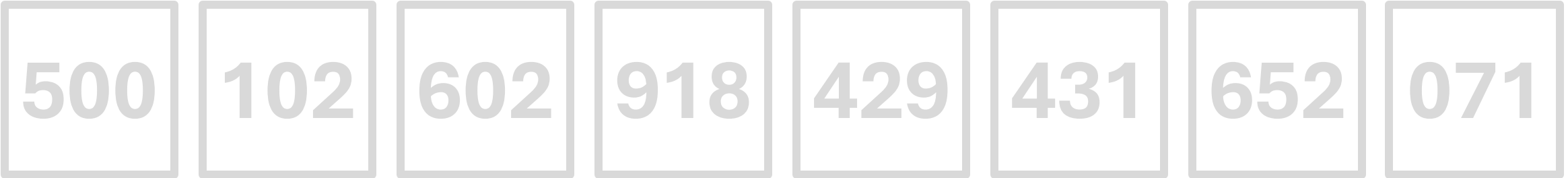
071



Pass 3: x _ _

0	071	5	500
1	102	6	602 652
2		7	
3		8	
4	429 431	9	918

after pass 2



Pass 3: x _ _

0

071

5

500

1

102

6

602

652

2

7

3

8

4

429

431

9

918



after pass 3



after pass 3

