

### Activity 3:

EASY QUESTION  
0 1 2 3 4 5 6 7 8 9 10 11

i Min  
0 1 ✓ E A swap.

A | EASY QUESTION  
0 1 2 3 4 5 6 7 8 9 10 11

i Min

1 1 ✓

A E | S Y Q U E S T I O N  
2 3 4 5 6 7 8 9 10 11

i Min

2 ~~X~~ 6 5 E swap.

A E E | Y Q U S S T I O N  
3 4 5 6 7 8 9 10 11

i Min

3 ~~X~~ ~~X~~ 9 4 I swap.

A E E I | Q U S S T Y O N  
4 5 6 7 8 9 10 11

i Min

4 ~~X~~ ~~X~~ 11 Q N swap.

A E E I N | U S S T Y O Q  
5 6 7 8 9 10 11

i Min  
5 ~~8~~ 10      U  $\leftrightarrow$  0 swap.

A E E I N O | S S T Y U A  
6 7 8 9 10 11

i Min  
6 ~~8~~ 11      S A swap.

A E E I N O A | S T Y U S  
7 8 9 10 11

i Min  
7 7  
A E E I N O A S | T Y U S  
8 9 10 11

i Min.  
8 ~~8~~ 11      T S swap.

A E E I N O A S S | Y U T  
9 10 11

i Min.  
9 ~~8~~ 11      Y T swap.  
A E E I N O A S S T | U Y  
10 11

i Min.  
10 10 ✓

A E E I N O A S S T U Y