

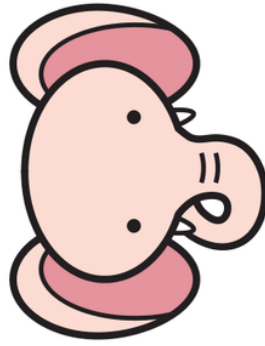
# Teacher guide sheet for binary search activity

Use this sheet to circle the number you are asking your class to look for when you are demonstrating how the binary search works. This allows you to demonstrate the maximum number of searches it would take. When students are playing the treasure hunt game, they can choose any number. Avoid those numbers that are underlined as they are key binary search positions (avoiding them is a good thing to do for demonstrations, but in practice students, or computers, won't intentionally avoid these).

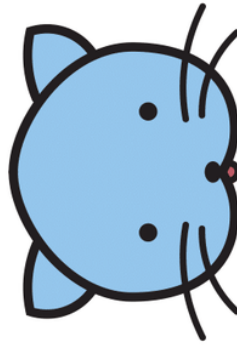
## Sorted numbers

1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15

1



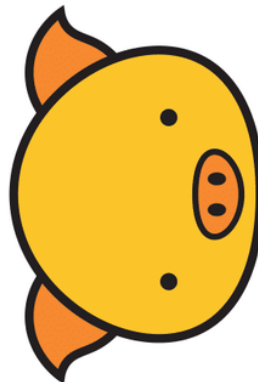
2



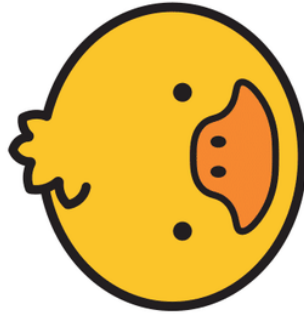
3



4



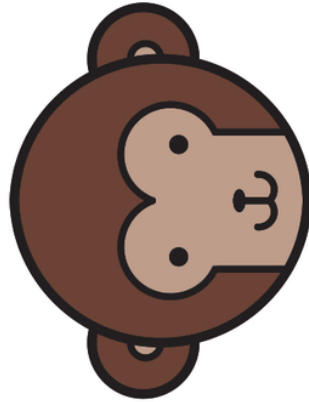
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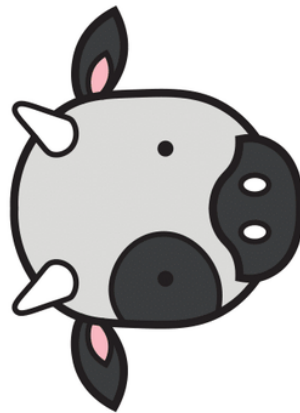
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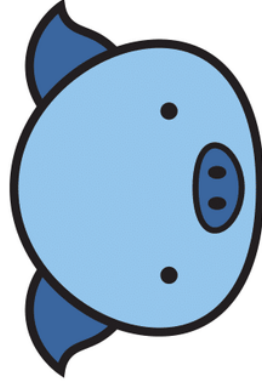
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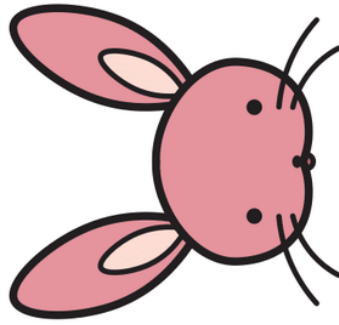
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9



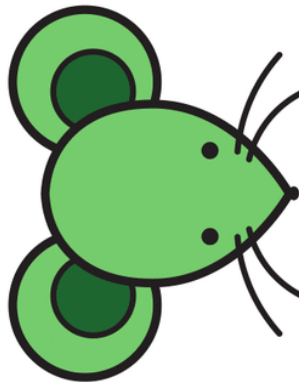
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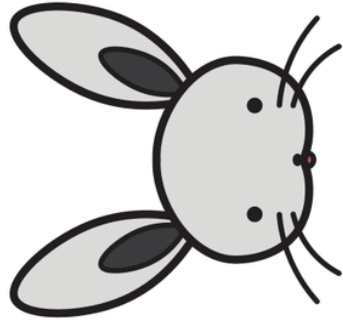
11



12



13



14



15

