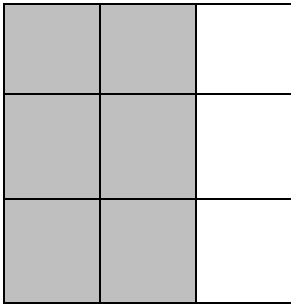


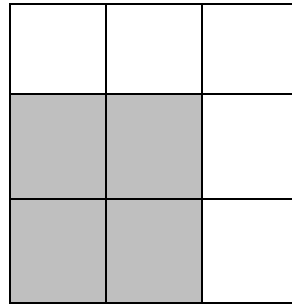
**Головоломка «Квадрат»**  
**Инструкция по применению**

Сверните квадрат  $4 \times 4$  так, чтобы получился квадрат  $3 \times 3$  со следующим расположением тёмных и светлых клеточек:

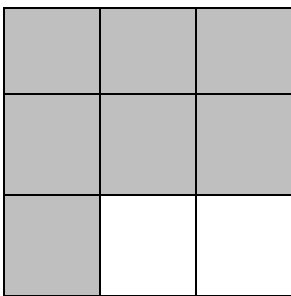
1.



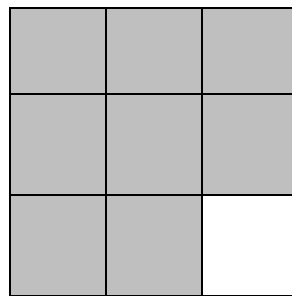
2.



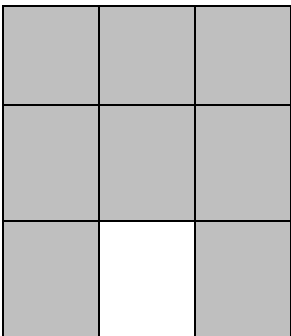
3.



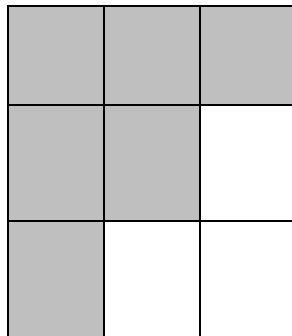
4.



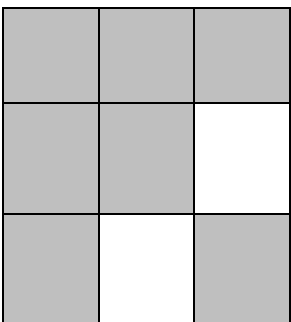
5.



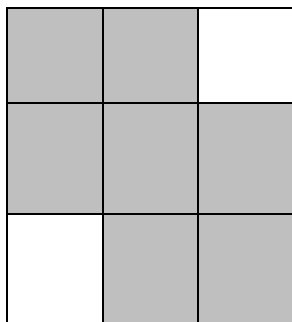
6.



7.



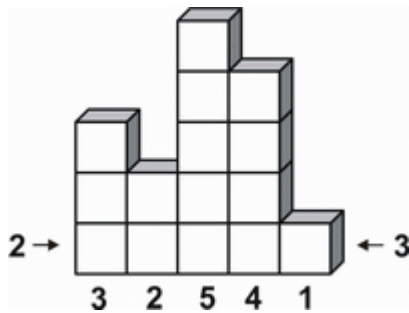
8.



*Замечание. Квадрат разрешается перегибать не только по линиям сетки, но и по диагоналям клеточек. Делать разрывы нельзя.*

## Небоскребы

План города представляет собой квадрат, в каждой клетке которого стоит дом определенной высоты. Во всех строках и столбиках высоты домов должны быть различны, это - числа от 1 до N (где N - размер сетки). Числа вне сетки указывают, сколько домов видно, если смотреть в соответствующем положении, как на иллюстрации ниже.



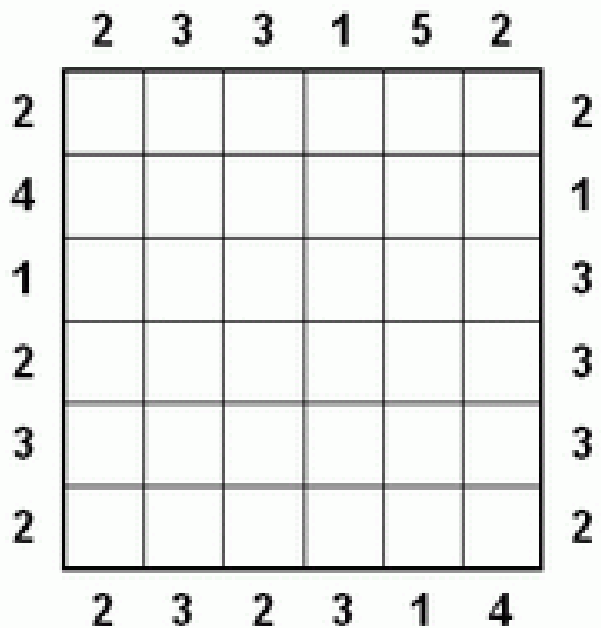
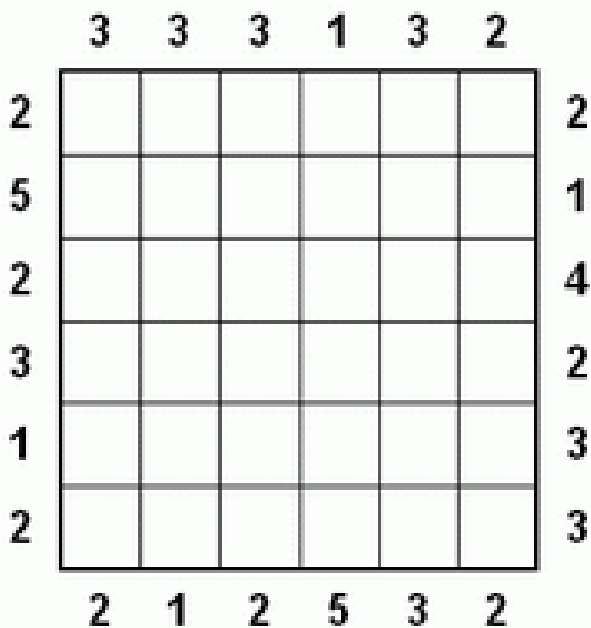
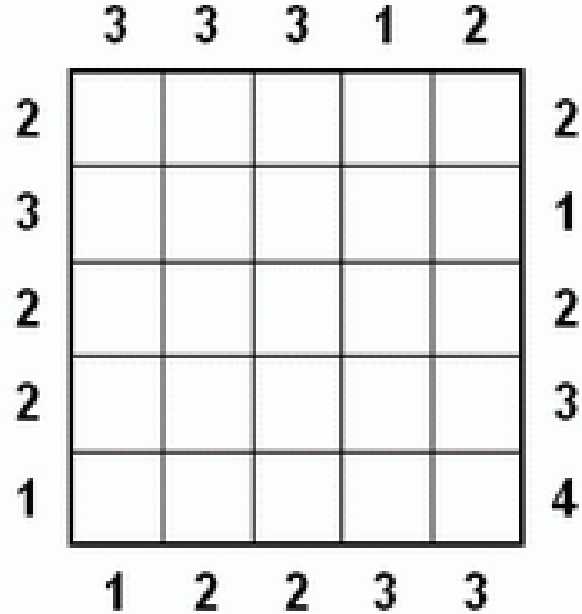
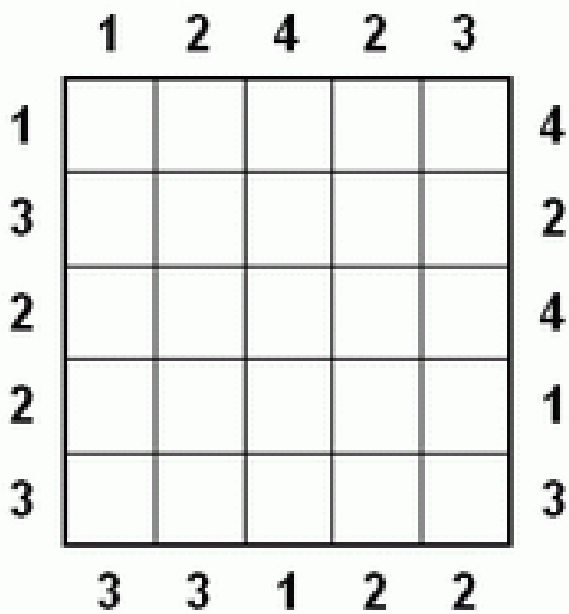
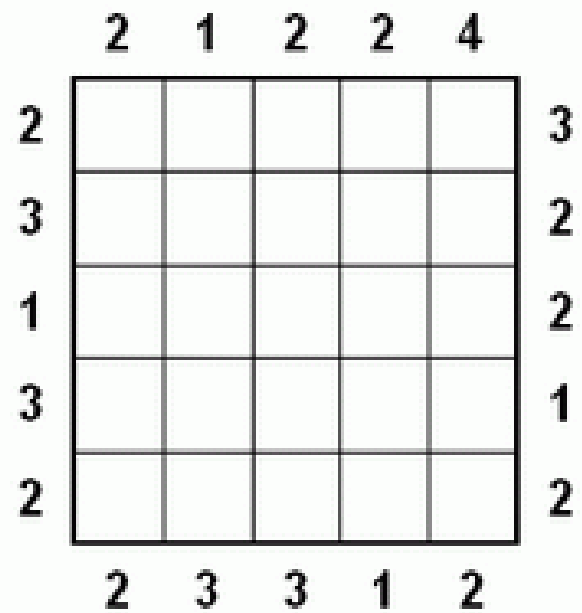
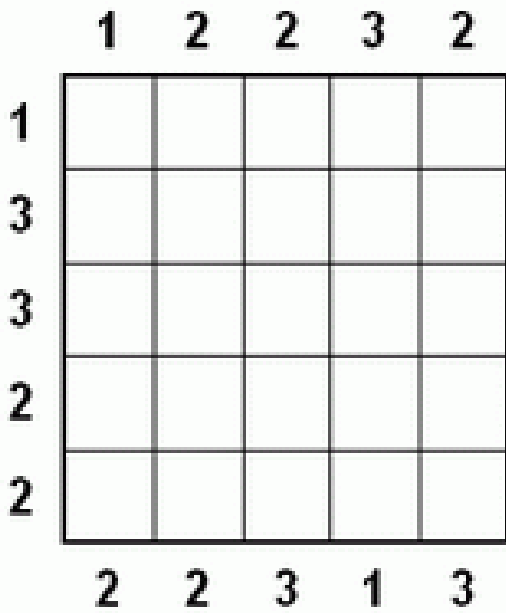
Узнайте высоту всех домов в сетке, вписав соответствующие числа в клетки квадрата. Пример:

|          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|
|          | <b>3</b> | <b>2</b> | <b>1</b> | <b>2</b> | <b>4</b> |          |
| <b>2</b> |          |          |          |          |          | <b>3</b> |
| <b>2</b> |          |          |          |          |          | <b>3</b> |
| <b>1</b> |          |          |          |          |          | <b>3</b> |
| <b>3</b> |          |          |          |          |          | <b>1</b> |
| <b>3</b> |          |          |          |          |          | <b>2</b> |
|          | <b>3</b> | <b>3</b> | <b>3</b> | <b>1</b> | <b>2</b> |          |

→

|          |          |          |          |          |
|----------|----------|----------|----------|----------|
| <b>3</b> | <b>2</b> | <b>5</b> | <b>4</b> | <b>1</b> |
| <b>4</b> | <b>5</b> | <b>3</b> | <b>1</b> | <b>2</b> |
| <b>5</b> | <b>4</b> | <b>1</b> | <b>2</b> | <b>3</b> |
| <b>2</b> | <b>1</b> | <b>4</b> | <b>3</b> | <b>5</b> |
| <b>1</b> | <b>3</b> | <b>2</b> | <b>5</b> | <b>4</b> |

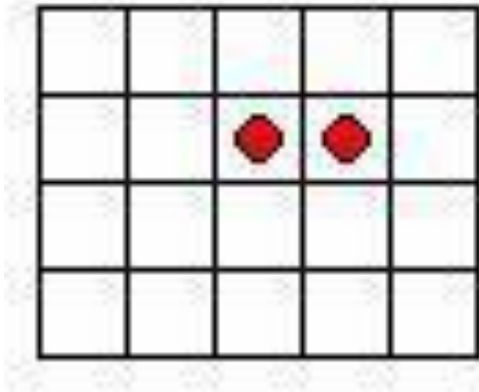
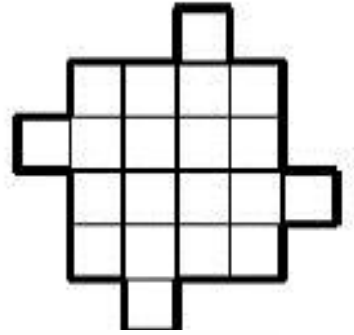
|          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|
|          | <b>3</b> | <b>2</b> | <b>1</b> | <b>2</b> |          |
| <b>3</b> |          |          |          |          | <b>2</b> |
| <b>3</b> |          |          |          |          | <b>1</b> |
| <b>1</b> |          |          |          |          | <b>2</b> |
| <b>2</b> |          |          |          |          | <b>3</b> |
|          | <b>2</b> | <b>1</b> | <b>3</b> | <b>3</b> |          |



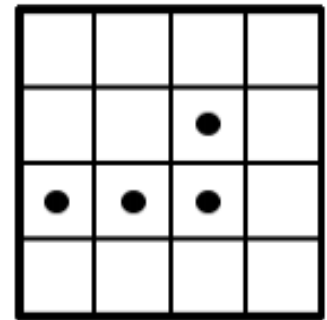
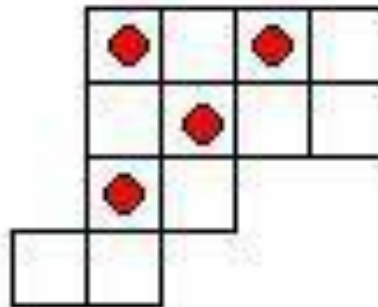
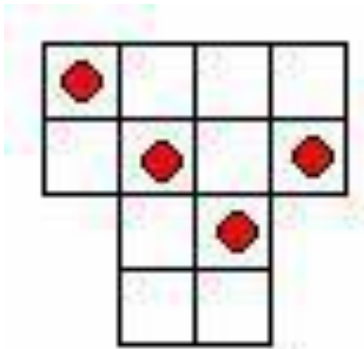
**Розрізання.**  
**27.04.2019**

1. Разрежь фигуру на четыре одинаковые по площади и по форме части.

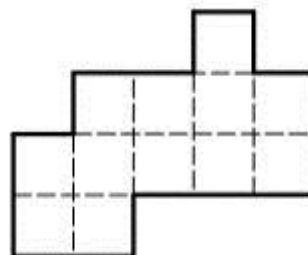
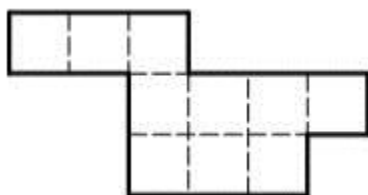
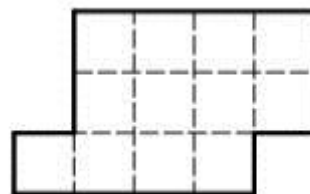
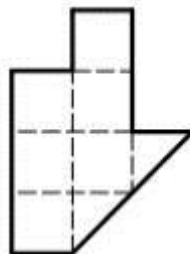
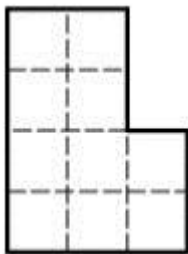
2. Разрежьте фигуры, изображенные на рисунках, на две равные части по линиям сетки так, чтобы в каждой из частей был кружок.



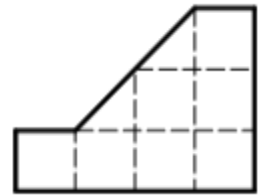
3. Разрежьте фигуры, изображенные на рисунке, на четыре равные части по линиям сетки так, чтобы в каждой из частей был кружок.



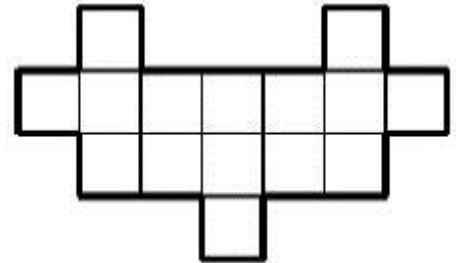
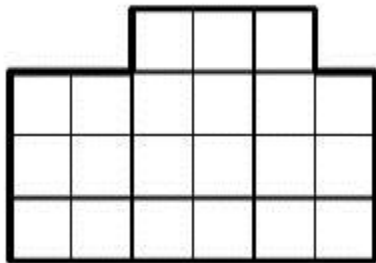
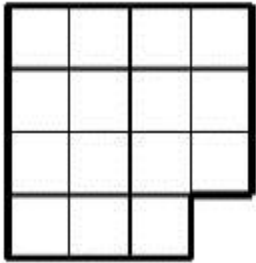
4. Разрежьте каждую из фигур на две одинаковые по площади и по форме части. Резать можно только по сторонам клеток.



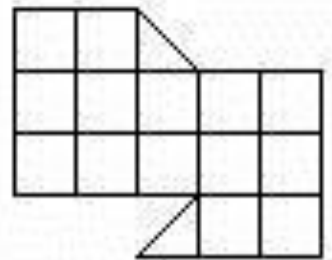
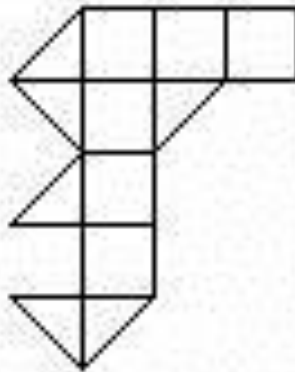
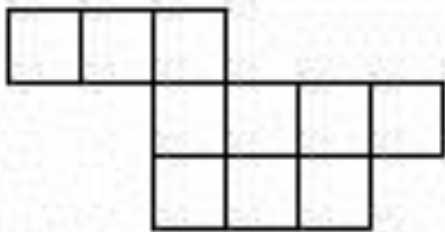
5. Разрежьте каждую из фигур на две одинаковые по площади и по форме части. Резать можно не только по сторонам клеток, но и по диагоналям.



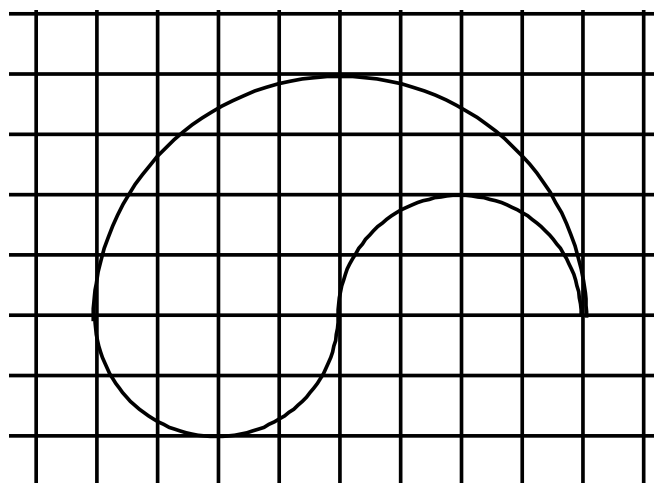
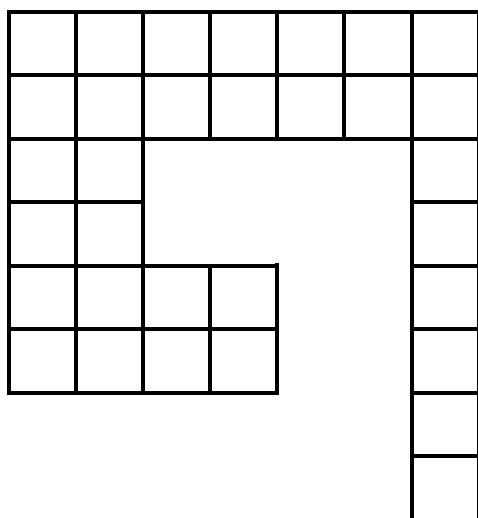
6. Разрежьте каждую из фигур на три равные части.



7. Разделите фигуры, изображенные на рисунке, на две равные части. (Разрезать можно не только по сторонам клеток, но и по их диагоналям.)



8. Разделите фигуры, изображенные на рисунке, на две равные части



### Курица

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   | 1 | 4 | 3 | 3 | 1 |
|   | 1 |   |   |   |   |   |
| 2 | 2 |   |   |   |   |   |
|   | 3 |   |   |   |   |   |
|   | 3 |   |   |   |   |   |
|   | 1 |   |   |   |   |   |

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### Козлик

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   |   | 1 |   |   |   |
|   |   | 1 | 1 |   |   |
|   |   | 2 | 2 | 6 | 1 |
|   | 3 |   |   |   |   |
|   | 2 |   |   |   |   |
| 1 | 1 |   |   |   |   |
|   | 2 |   |   |   |   |
|   | 3 |   |   |   |   |
| 1 | 1 |   |   |   |   |

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### Кролик

|   |  |   |   |   |   |   |
|---|--|---|---|---|---|---|
|   |  | 1 | 1 |   | 2 |   |
|   |  | 1 | 3 | 3 | 4 | 1 |
| 2 |  |   |   |   |   |   |
| 2 |  |   |   |   |   |   |
| 4 |  |   |   |   |   |   |
| 4 |  |   |   |   |   |   |
| 4 |  |   |   |   |   |   |

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### Пес

|   |   |   |   |    |   |   |   |   |   |   |
|---|---|---|---|----|---|---|---|---|---|---|
|   |   |   |   |    |   |   |   |   | 5 |   |
|   |   | 2 | 2 | 10 | 3 | 2 | 1 | 3 | 1 | 3 |
|   | 1 |   |   |    |   |   |   |   |   |   |
|   | 3 |   |   |    |   |   |   |   |   |   |
|   | 3 |   |   |    |   |   |   |   |   |   |
| 1 | 1 |   |   |    |   |   |   |   |   |   |
|   | 6 |   |   |    |   |   |   |   |   |   |
| 3 | 2 |   |   |    |   |   |   |   |   |   |
| 2 | 2 |   |   |    |   |   |   |   |   |   |
| 1 | 2 |   |   |    |   |   |   |   |   |   |
| 1 | 1 |   |   |    |   |   |   |   |   |   |
| 1 | 2 |   |   |    |   |   |   |   |   |   |

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### Верблюд

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   | 4 | 3 | 4 | 1 | 1 |
|   | 1 |   |   |   |   |   |
| 3 | 1 |   |   |   |   |   |
|   | 4 |   |   |   |   |   |
| 1 | 1 |   |   |   |   |   |
| 1 | 1 |   |   |   |   |   |

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### Заяц

|   |   |   |    |   |   |   |   |   |
|---|---|---|----|---|---|---|---|---|
|   |   |   |    |   |   | 3 | 1 |   |
|   |   | 2 | 10 | 2 | 2 | 2 | 1 | 3 |
|   | 1 |   |    |   |   |   |   |   |
|   | 1 |   |    |   |   |   |   |   |
|   | 2 |   |    |   |   |   |   |   |
|   | 2 |   |    |   |   |   |   |   |
| 1 | 1 |   |    |   |   |   |   |   |
|   | 5 |   |    |   |   |   |   |   |
|   | 5 |   |    |   |   |   |   |   |
| 1 | 2 |   |    |   |   |   |   |   |
| 1 | 1 |   |    |   |   |   |   |   |
| 1 | 2 |   |    |   |   |   |   |   |

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### Тетрис

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   |   | 1 |   |   |   |
|   |   | 3 | 1 | 3 | 2 | 3 |
|   |   | 1 |   |   |   |   |
|   |   | 2 |   |   |   |   |
| 1 | 1 | 1 |   |   |   |   |
|   | 1 | 2 |   |   |   |   |
|   | 2 | 2 |   |   |   |   |

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### Коляска

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   |   | 2 |   | 1 | 1 |   |
|   |   | 1 | 4 | 2 | 1 | 1 |
|   | 2 |   |   |   |   |   |
| 2 | 1 |   |   |   |   |   |
|   | 4 |   |   |   |   |   |
|   | 2 |   |   |   |   |   |
| 1 | 1 |   |   |   |   |   |

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### Чтение

|   |    |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|---|----|---|---|---|---|---|---|----|---|---|---|---|---|----|----|---|---|--|
|   |    |   |   |   | 1 | 2 |   |    | 1 | 5 |   |   |   |    |    |   |   |  |
|   |    |   |   |   | 2 | 5 |   | 2  | 3 | 3 |   |   |   | 4  |    |   |   |  |
|   |    |   |   | 2 | 3 | 4 | 4 | 11 | 7 | 5 | 5 | 9 |   |    | 11 | 8 |   |  |
|   |    |   | 3 | 4 | 4 | 5 | 1 | 1  | 1 | 1 | 1 | 1 | 9 | 20 | 20 | 1 | 1 |  |
|   | 6  |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 5  |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 5  |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 5 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
| 2 | 2  | 4 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
| 2 | 2  | 3 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 3 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 2  | 5 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 2  | 6 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 5  | 4 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 4 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 2  | 5 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 5 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 11 |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 11 |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 3  | 8 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 7 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 5 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 4  | 3 |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |
|   | 15 |   |   |   |   |   |   |    |   |   |   |   |   |    |    |   |   |  |

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### Чашка с чаем

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|---|--|
|   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |  |  |  |   |  |
|   |   |   |   |   |   | 2 | 4 | 2 |   |   |   |   |   |  |  |  |   |  |
|   |   |   |   | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 1 |   |  |  |  | 1 |  |
|   |   |   | 4 | 2 | 2 | 1 | 1 | 1 | 2 | 2 | 4 | 1 | 2 |  |  |  |   |  |
|   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 2 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 1 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 8 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 1 | 3 |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
| 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 2 | 3 |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |
|   | 4 |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |   |  |

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### Кит

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|
|   |   |   |   |   |   |   |   |   |   | 1 |   |   |   |   |   |   |   |   |  |  |  |
|   |   |   |   |   |   |   |   |   |   | 2 |   |   |   |   |   |   |   |   |  |  |  |
|   |   |   |   |   |   | 2 | 2 | 1 | 1 | 6 | 1 | 4 | 3 | 3 | 3 | 3 | 3 |   |  |  |  |
|   |   |   | 3 | 5 | 4 | 8 | 8 | 2 | 1 | 2 | 2 | 1 | 1 | 4 | 2 | 4 | 3 | 3 |  |  |  |
|   | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
| 2 | 1 | 1 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 1 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 5 | 1 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 7 | 2 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 9 | 5 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 2 | 8 | 3 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 6 | 3 | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 5 | 3 | 4 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 5 | 3 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |
|   | 5 | 2 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |

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### Очки

|   |   |   |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|---|---|---|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|
|   |   |   |    | 3 |   | 2 | 2 | 1 | 2 | 2 |   |   |   |   |   |   |   |   |  |
|   |   | 3 | 1  | 6 | 4 | 2 | 1 | 2 | 1 | 4 | 4 | 3 | 2 | 2 | 2 | 2 | 1 | 2 |  |
|   |   | 2 | 2  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 2 | 1 | 2 | 1  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 2 | 1 | 2 | 1  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   | 2 | 2  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   | 4 | 5  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   |   | 11 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
| 1 | 3 | 1 | 3  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |
|   |   | 3 | 3  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |

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### Свинка

|    |    |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|----|----|---|---|---|---|---|----|----|----|---|---|---|---|----|----|----|----|---|---|---|---|--|
|    |    |   |   |   |   |   |    |    |    | 1 | 1 | 1 | 1 |    |    |    |    | 2 |   |   |   |  |
|    |    | 1 | 2 | 1 | 6 | 9 | 10 | 11 | 11 | 8 | 8 | 8 | 9 | 11 | 12 | 11 | 11 | 4 | 5 | 3 | 3 |  |
|    | 1  |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 3  |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 10 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
| 4  | 5  |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 15 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
| 15 | 3  |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
| 2  | 17 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 17 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 15 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 14 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 12 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
|    | 11 |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |
| 3  | 3  |   |   |   |   |   |    |    |    |   |   |   |   |    |    |    |    |   |   |   |   |  |

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