

## 数学A 練習問題解答 No.05

P12 第1章 場合の数と確率 第1節 場合の数 1 集合の要素の個数

A 集合の要素の個数

【練習1】  $U = \{1, 2, 3, 4, 5, 6\}$  を全体集合とし、 $U$  と  $U$  の部分集合  $A = \{1, 2, 3, 4\}$   
 $B = \{3, 4, 6\}$  について、次の集合個数を求めよ。

- (1)  $n(U)$                       (2)  $n(\bar{B})$                       (3)  $n(A \cap B)$   
 (4)  $n(\overline{A \cup B})$                       (5)  $n(A \cap \bar{B})$

|                              |  |            |              |                  |                    |                   |                     |                              |                                |                         |                           |
|------------------------------|--|------------|--------------|------------------|--------------------|-------------------|---------------------|------------------------------|--------------------------------|-------------------------|---------------------------|
| <b>解</b>                     | $U = \{1, 2, 3, 4, 5, 6\}$ $A = \{1, 2, 3, 4\}$ $B = \{3, 4, 6\}$ なので、<br>$\bar{B} = \{1, 2, 5\}$ $A \cap B = \{3, 4\}$ $\overline{A \cup B} = \{5\}$ $A \cap \bar{B} = \{1, 2\}$ となるので、   |            |              |                  |                    |                   |                     |                              |                                |                         |                           |
| <b>答</b>                     | <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%; padding-right: 10px;">(1) <math>n(U)</math></td> <td style="border: 1px dashed black; padding: 2px;">答 <math>n(U) = 6</math></td> </tr> <tr> <td style="padding-right: 10px;">(2) <math>n(\bar{B})</math></td> <td style="border: 1px dashed black; padding: 2px;">答 <math>n(\bar{B}) = 3</math></td> </tr> <tr> <td style="padding-right: 10px;">(3) <math>n(A \cap B)</math></td> <td style="border: 1px dashed black; padding: 2px;">答 <math>n(A \cap B) = 2</math></td> </tr> <tr> <td style="padding-right: 10px;">(4) <math>n(\overline{A \cup B})</math></td> <td style="border: 1px dashed black; padding: 2px;">答 <math>n(\overline{A \cup B}) = 1</math></td> </tr> <tr> <td style="padding-right: 10px;">(5) <math>n(A \cap \bar{B})</math></td> <td style="border: 1px dashed black; padding: 2px;">答 <math>n(A \cap \bar{B}) = 2</math></td> </tr> </table> | (1) $n(U)$ | 答 $n(U) = 6$ | (2) $n(\bar{B})$ | 答 $n(\bar{B}) = 3$ | (3) $n(A \cap B)$ | 答 $n(A \cap B) = 2$ | (4) $n(\overline{A \cup B})$ | 答 $n(\overline{A \cup B}) = 1$ | (5) $n(A \cap \bar{B})$ | 答 $n(A \cap \bar{B}) = 2$ |
| (1) $n(U)$                   | 答 $n(U) = 6$   |            |              |                  |                    |                   |                     |                              |                                |                         |                           |
| (2) $n(\bar{B})$             | 答 $n(\bar{B}) = 3$   |            |              |                  |                    |                   |                     |                              |                                |                         |                           |
| (3) $n(A \cap B)$            | 答 $n(A \cap B) = 2$  |            |              |                  |                    |                   |                     |                              |                                |                         |                           |
| (4) $n(\overline{A \cup B})$ | 答 $n(\overline{A \cup B}) = 1$   |            |              |                  |                    |                   |                     |                              |                                |                         |                           |
| (5) $n(A \cap \bar{B})$      | 答 $n(A \cap \bar{B}) = 2$  |            |              |                  |                    |                   |                     |                              |                                |                         |                           |

P13 和集合、補集合の要素の個数

【練習2】 全体集合  $U$  の部分集合  $A, B$  について  $n(U) = 40$      $n(A) = 18$      $n(B) = 25$   
 $n(A \cap B) = 6$  であるとき、次の個数を求めよ。

- (1)  $n(\bar{B})$                       (2)  $n(\overline{A \cup B})$                       (3)  $n(\bar{A} \cap \bar{B})$

|          |   |
|----------|---|
| <b>解</b> | 和集合、補集合の要素の個数の計算式(1, 2)を使う。<br><b>1</b> $n(A \cup B) = n(A) + n(B) - n(A \cap B)$<br><b>2</b> $n(\bar{A}) = n(U) - n(A)$ ただし、 $U$ は全体集合   |
| <b>答</b> | <p>(1) <math>n(\bar{B})</math>                      <math>n(\bar{B}) = n(U) - n(B)</math> なので<br/> <math>n(\bar{B}) = 40 - 25 = 15</math>                      <span style="float: right; border: 1px dashed black; padding: 2px;">答 <math>n(\bar{B}) = 15</math></span></p> <p>(2) <math>n(\overline{A \cup B})</math>                      <math>n(\overline{A \cup B}) = n(U) - n(A \cup B)</math><br/> <math>= n(U) - \{n(A) + n(B) - n(A \cap B)\}</math> なので<br/> <math>n(\overline{A \cup B}) = 40 - (18 + 25 - 6) = 3</math>                      <span style="float: right; border: 1px dashed black; padding: 2px;">答 <math>n(\overline{A \cup B}) = 3</math></span></p> <p>(3) <math>n(\bar{A} \cap \bar{B})</math>                      P10 ド・モルガンの法則より、<math>\overline{A \cup B} = \bar{A} \cap \bar{B}</math> なので<br/> <math>n(\bar{A} \cap \bar{B}) = n(\overline{A \cup B}) = 3</math>                      <span style="float: right; border: 1px dashed black; padding: 2px;">答 <math>n(\bar{A} \cap \bar{B}) = 3</math></span></p> |

## 数学A 練習問題解答 No.06

### P14 B 倍数の個数

【練習3】 100以下の自然数のうち、次のような数の個数を求めよ。

- (1) 6の倍数 (2) 6の倍数でない数  
 (3) 4の倍数かつ6の倍数 (4) 4の倍数または6の倍数

|          |  |  |
|----------|--|--|
| <b>解</b> | 100以下の自然数全体の集合を $U$ とし、 $U$ の部分集合で、6の倍数全体の集合を $A$ 、4の倍数全体の集合を $B$ とすると $A = \{6 \cdot 1, 6 \cdot 2, 6 \cdot 3, \dots, 6 \cdot 16\}$<br>$B = \{4 \cdot 1, 4 \cdot 2, 4 \cdot 3, \dots, 4 \cdot 25\}$ $A \cap B = \{12 \cdot 1, 12 \cdot 2, 12 \cdot 3, \dots, 12 \cdot 8\}$ なので |  |
|          | (1) 6の倍数   | $n(A) = 16$<br><div style="text-align: right;">[ 答 16個 ]</div>   |
| <b>答</b> | (2) 6の倍数でない数   | $n(\bar{A}) = n(U) - n(A) = 100 - 16 = 84$<br><div style="text-align: right;">[ 答 84個 ]</div>                        |
|          | (3) 4の倍数かつ6の倍数   | $n(A \cap B) = 8$<br><div style="text-align: right;">[ 答 8個 ]</div>  |
|          | (4) 4の倍数または6の倍数  | $n(A \cup B) = n(A) + n(B) - n(A \cap B)$<br>$= 16 + 25 - 8 = 33$<br><div style="text-align: right;">[ 答 33個 ]</div> |

### P15 C 集合の応用

【練習5】 あるクラスの生徒40人について通学方法を調べたところ、自転車を利用する人が13人、バスを利用する人が16人、自転車もバスも利用する人が5人いた。次の人は何人いるか。

- (1) 自転車もバスも利用しない人 (2) 自転車は利用するが、バスは利用しない人

|           |   |           |  |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
|-----------|---|-----------|--|--|-----|-----------|----|-----|---|-----|----|-----------|------|------|------|----|----|------|
| <b>解</b>  | クラスの生徒40人の集合を $U$ とし、自転車を利用する人の集合を $A$ 、バスを利用する人の集合を $B$ として人数の表を作った。 |           |  |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
|           |   |           | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td><math>B</math></td><td><math>\bar{B}</math></td><td>合計</td></tr> <tr><td><math>A</math></td><td>5</td><td></td><td>13</td></tr> <tr><td><math>\bar{A}</math></td><td></td><td></td><td></td></tr> <tr><td>合計</td><td>16</td><td></td><td>40</td></tr> </table>  |  | $B$ | $\bar{B}$ | 合計 | $A$ | 5 |     | 13 | $\bar{A}$ |      |      |      | 合計 | 16 |      |
|           | $B$   | $\bar{B}$ | 合計   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| $A$       | 5   |           | 13   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| $\bar{A}$ |   |           |  |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| 合計        | 16  |           | 40   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| <b>答</b>  | 空らんをうめて、問題の人数を求めよ   |           |  |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
|           |   |           | <table border="1" style="margin-left: auto; margin-right: auto;"> <tr><td></td><td><math>B</math></td><td><math>\bar{B}</math></td><td>合計</td></tr> <tr><td><math>A</math></td><td>5</td><td>(8)</td><td>13</td></tr> <tr><td><math>\bar{A}</math></td><td>(11)</td><td>(16)</td><td>(27)</td></tr> <tr><td>合計</td><td>16</td><td>(24)</td><td>40</td></tr> </table> <p>(1) 自転車もバスも利用しない人<br/>             自転車もバスも利用しない人の集合は、<math>\bar{A} \cap \bar{B}</math>なので <math>n(\bar{A} \cap \bar{B}) = 16</math><br/> <div style="text-align: right;">[ 答 16人 ]</div></p> <p>(2) 自転車は利用するが、バスは利用しない人<br/>             自転車は利用するが、バスは利用しない人の集合は、<math>A \cap \bar{B}</math>なので <math>n(A \cap \bar{B}) = 8</math><br/> <div style="text-align: right;">[ 答 8人 ]</div></p> |  | $B$ | $\bar{B}$ | 合計 | $A$ | 5 | (8) | 13 | $\bar{A}$ | (11) | (16) | (27) | 合計 | 16 | (24) |
|           | $B$   | $\bar{B}$ | 合計   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| $A$       | 5   | (8)       | 13   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| $\bar{A}$ | (11)  | (16)      | (27)   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |
| 合計        | 16  | (24)      | 40   |  |     |           |    |     |   |     |    |           |      |      |      |    |    |      |

## 数学A 練習問題解答 No.07

P16 2 場合の数 A 樹形図

【練習6】 アルファベットのA, B, Cを, ACBのように重複なしに1個ずつすべて並べるとき, その並べ方をすべて書き出せ。

|          |   |   |
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| <b>解</b> | 樹形図を使って書くと <div style="text-align: center; margin: 10px 0;"> </div> | 並べて, その並べ方をすべて書き出すと <div style="border: 1px dashed black; padding: 5px; margin: 10px 0; text-align: center;">                     答<br/>                     ABC ACB<br/>                     BAC BCA<br/>                     CAB CBA                 </div> |
| <b>答</b> |   |   |

P17 A 樹形図(続き)

【練習7】 大中小の3個のサイコロを投げるとき, 次の場合は何通りあるか。

(1) 目の和が7になる場合

(2) 目の積が6になる場合

|          |  |         |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|----------|--|---------|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|--|---|---|---|
| <b>解</b> | (1) 目の和が7になる場合 <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr> <td></td> <td style="text-align: center;">大</td> <td style="text-align: center;">中</td> <td style="text-align: center;">小</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td style="text-align: center;">4</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">4</td> </tr> <tr> <td></td> <td style="text-align: center;">5</td> <td style="text-align: center;">5</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">4</td> <td style="text-align: center;">4</td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">4</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">5</td> </tr> </table> </div> |         | 大 | 中 | 小 |  | 5 | 1 | 1 |  | 4 | 2 | 1 |  | 3 | 1 | 2 |  | 3 | 3 | 1 |  | 2 | 2 | 2 |  | 1 | 1 | 3 |  | 4 | 4 | 1 |  | 3 | 3 | 2 |  | 2 | 2 | 3 |  | 1 | 1 | 4 |  | 5 | 5 | 1 |  | 4 | 4 | 2 |  | 3 | 3 | 3 |  | 2 | 2 | 4 |  | 1 | 1 | 5 | (2) 目の積が6になる場合 <div style="text-align: center; margin: 10px 0;"> <table style="margin: auto;"> <tr> <td></td> <td style="text-align: center;">大</td> <td style="text-align: center;">中</td> <td style="text-align: center;">小</td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">3</td> <td style="text-align: center;">3</td> <td style="text-align: center;">1</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> <td style="text-align: center;">6</td> </tr> <tr> <td></td> <td style="text-align: center;">2</td> <td style="text-align: center;">2</td> <td style="text-align: center;">3</td> </tr> <tr> <td></td> <td style="text-align: center;">1</td> <td style="text-align: center;">3</td> <td style="text-align: center;">2</td> </tr> <tr> <td></td> <td style="text-align: center;">6</td> <td style="text-align: center;">1</td> <td style="text-align: center;">1</td> </tr> </table> </div> |  | 大 | 中 | 小 |  | 6 | 1 | 1 |  | 3 | 2 | 1 |  | 1 | 1 | 2 |  | 3 | 3 | 1 |  | 2 | 1 | 3 |  | 1 | 1 | 6 |  | 2 | 2 | 3 |  | 1 | 3 | 2 |  | 6 | 1 | 1 |
|          | 大  | 中       | 小 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 5  | 1       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 4  | 2       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 3  | 1       | 2 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 3  | 3       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 2  | 2       | 2 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 1  | 1       | 3 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 4  | 4       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 3  | 3       | 2 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 2  | 2       | 3 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 1  | 1       | 4 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 5  | 5       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 4  | 4       | 2 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 3  | 3       | 3 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 2  | 2       | 4 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 1  | 1       | 5 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 大  | 中       | 小 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 6  | 1       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 3  | 2       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 1  | 1       | 2 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 3  | 3       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 2  | 1       | 3 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 1  | 1       | 6 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 2  | 2       | 3 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 1  | 3       | 2 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
|          | 6  | 1       | 1 |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |
| <b>答</b> | [答] 15通り   | [答] 9通り |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |  |   |   |   |