**Practical work assignments 2**

In this work, each student will have to complete two tasks according to their variant number. The variant number corresponds to the student's number in the journal.

**Task 1**

Determine the values of the missing data based on the available information using the average, median, fashion, and smart formula.

**Variants:**

**1.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 10 | 20 | 70 |
| **Object 2** | 40 | 60 | 60 |
| **Object 3** | 70 | ? | 110 |
| **Object 4** | 80 | 70 | 140 |
| **Object 5** | 50 | 60 | 80 |
| **Object 6** | 80 | 30 | 90 |

**2.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 15 | 25 | 35 |
| **Object 2** | 45 | 55 | 65 |
| **Object 3** | 75 | 85 | ? |
| **Object 4** | 15 | 25 | 45 |
| **Object 5** | 60 | 35 | 50 |
| **Object 6** | 50 | 40 | 45 |

**3.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 20 | 20 | 40 |
| **Object 2** | 50 | 60 | 70 |
| **Object 3** | 80 | ? | 20 |
| **Object 4** | 90 | 30 | 50 |
| **Object 5** | 25 | 50 | 20 |
| **Object 6** | 36 | 60 | 30 |

**4.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 24 | 33 | 40 |
| **Object 2** | 50 | 61 | 72 |
| **Object 3** | 83 | ? | 20 |
| **Object 4** | 90 | 32 | 53 |
| **Object 5** | 25 | 50 | 20 |
| **Object 6** | 36 | 61 | 30 |

**5.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 22 | 32 | 41 |
| **Object 2** | 53 | 50 | 70 |
| **Object 3** | 80 | ? | 28 |
| **Object 4** | 91 | 30 | 40 |
| **Object 5** | 25 | 50 | 20 |
| **Object 6** | 36 | 60 | 32 |

**6.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 29 | 32 | 41 |
| **Object 2** | 53 | 45 | 70 |
| **Object 3** | 85 | ? | 28 |
| **Object 4** | 91 | 32 | 40 |
| **Object 5** | 25 | 50 | 21 |
| **Object 6** | 36 | 60 | 46 |

**7.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 30 | 42 | 51 |
| **Object 2** | 53 | 45 | 70 |
| **Object 3** | 65 | ? | 38 |
| **Object 4** | 91 | 33 | 40 |
| **Object 5** | 15 | 50 | 21 |
| **Object 6** | 36 | 42 | 46 |

**8.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 24 | 33 | 40 |
| **Object 2** | 50 | 61 | 72 |
| **Object 3** | 83 | ? | 20 |
| **Object 4** | 90 | 32 | 53 |
| **Object 5** | 25 | 50 | 20 |
| **Object 6** | 36 | 61 | 30 |

**9.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 22 | 32 | 41 |
| **Object 2** | 53 | 50 | 70 |
| **Object 3** | ? | 45 | 28 |
| **Object 4** | 91 | 30 | 40 |
| **Object 5** | 22 | 50 | 20 |
| **Object 6** | 36 | 60 | 32 |

**10.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects / Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 15 | 25 | ? |
| **Object 2** | 45 | 55 | 65 |
| **Object 3** | 75 | 85 | 35 |
| **Object 4** | 15 | 25 | 45 |
| **Object 5** | 60 | 35 | 50 |
| **Object 6** | 50 | 40 | 35 |

**11.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 33 | 40 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 83 | 33 | 20 |
| **Object 4** | 95 | 32 | 53 |
| **Object 5** | 25 | 50 | 20 |
| **Object 6** | 36 | ? | 35 |

**12.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 22 | 32 | 41 |
| **Object 2** | 53 | 50 | 76 |
| **Object 3** | 60 | 45 | 28 |
| **Object 4** | 91 | 30 | 41 |
| **Object 5** | ? | 50 | 20 |
| **Object 6** | 60 | 60 | 33 |

**13.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 15 | 25 | 75 |
| **Object 2** | 45 | 55 | 75 |
| **Object 3** | 75 | 85 | 35 |
| **Object 4** | 15 | 25 | 45 |
| **Object 5** | 60 | 35 | 50 |
| **Object 6** | 60 | 50 | ? |

**14.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 33 | 40 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 83 | 32 | 20 |
| **Object 4** | 95 | 47 | 53 |
| **Object 5** | 25 | ? | 30 |
| **Object 6** | 36 | 47 | 45 |

**15.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | ? | 32 | 41 |
| **Object 2** | 53 | 50 | 76 |
| **Object 3** | 60 | 45 | 28 |
| **Object 4** | 91 | 30 | 41 |
| **Object 5** | 48 | 50 | 20 |
| **Object 6** | 48 | 50 | 43 |

**16.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 33 | 40 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 83 | 31 | 20 |
| **Object 4** | 95 | ? | 53 |
| **Object 5** | 25 | 57 | 30 |
| **Object 6** | 46 | 57 | 55 |

**17.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 64 | 32 | 41 |
| **Object 2** | 53 | 50 | 76 |
| **Object 3** | 60 | 45 | 38 |
| **Object 4** | 91 | 30 | 41 |
| **Object 5** | ? | 50 | 20 |
| **Object 6** | 64 | 20 | 23 |

**18.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 29 | 32 | 41 |
| **Object 2** | ? | 50 | 76 |
| **Object 3** | 60 | 45 | 28 |
| **Object 4** | 91 | 30 | 41 |
| **Object 5** | 29 | 50 | 20 |
| **Object 6** | 48 | 70 | 53 |

**19.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 15 | 25 | 75 |
| **Object 2** | 45 | 55 | 70 |
| **Object 3** | 75 | 85 | 35 |
| **Object 4** | 15 | 25 | 35 |
| **Object 5** | 60 | 35 | 60 |
| **Object 6** | 64 | 55 | ? |

**20.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 37 | 44 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 83 | 33 | 20 |
| **Object 4** | 95 | ? | 53 |
| **Object 5** | 25 | 37 | 30 |
| **Object 6** | 45 | 27 | 54 |

**21.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 64 | 32 | 41 |
| **Object 2** | ?\_ | 50 | 76 |
| **Object 3** | 60 | 45 | 38 |
| **Object 4** | 91 | 30 | 41 |
| **Object 5** | 32 | 50 | 20 |
| **Object 6** | 32 | 21 | 24 |

**22.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 25 | 32 | 41 |
| **Object 2** | ? | 50 | 76 |
| **Object 3** | 60 | 45 | 28 |
| **Object 4** | 91 | 30 | 41 |
| **Object 5** | 25 | 50 | 25 |
| **Object 6** | 46 | 72 | 53 |

**23.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 31 | 40 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 83 | 38 | 20 |
| **Object 4** | 95 | ? | 53 |
| **Object 5** | 25 | 57 | 30 |
| **Object 6** | 46 | 38 | 55 |

**24.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 36 | 44 |
| **Object 2** | 57 | 61 | 73 |
| **Object 3** | 83 | 33 | 20 |
| **Object 4** | 95 | 61 | 53 |
| **Object 5** | 25 | 37 | 60 |
| **Object 6** | 44 | ? | 57 |

**25.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 65 | 32 | 41 |
| **Object 2** | 65 | 50 | 76 |
| **Object 3** | ? | 45 | 28 |
| **Object 4** | 90 | 30 | 41 |
| **Object 5** | 25 | 50 | 25 |
| **Object 6** | 48 | 72 | 55 |

**26.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 36 | 43 |
| **Object 2** | 57 | ? | 73 |
| **Object 3** | 83 | 33 | 20 |
| **Object 4** | 85 | 61 | 53 |
| **Object 5** | 25 | 37 | 60 |
| **Object 6** | 46 | 36 | 67 |

**27.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 25 | 32 | 41 |
| **Object 2** | 19 | 50 | 76 |
| **Object 3** | 60 | 45 | 25 |
| **Object 4** | 91 | 30 | 42 |
| **Object 5** | 25 | 50 | 25 |
| **Object 6** | 46 | 72 | ? |

**28.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 31 | 40 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 83 | 38 | 20 |
| **Object 4** | 95 | 31 | 53 |
| **Object 5** | 25 | ? | 30 |
| **Object 6** | 56 | 39 | 65 |

**29.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 15 | 25 | ? |
| **Object 2** | 35 | 55 | 70 |
| **Object 3** | 75 | 75 | 25 |
| **Object 4** | 15 | 25 | 35 |
| **Object 5** | 60 | 35 | 60 |
| **Object 6** | 64 | 65 | 60 |

**30.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Objects/Signs** | **P1** | **P2** | **P3** |
| **Object 1** | 28 | 33 | 40 |
| **Object 2** | 57 | 61 | 72 |
| **Object 3** | 53 | ? | 30 |
| **Object 4** | 65 | 36 | 55 |
| **Object 5** | 25 | 67 | 40 |
| **Object 6** | 36 | 67 | 65 |

**Task 2**

The table contains information about anonymous users' orders in the online store. The product names are displayed along the rows, and the order numbers are displayed in the columns (the cell has 1 if the product is included in the corresponding order; 0 otherwise). When building a recommendation system, it is necessary to evaluate the degree of similarity of products by calculating the Euclidean metric.

Determine which product can be recommended when purchasing product A, calculate the distances between these products.

**Variants:**

**1.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**2.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 0 | 0 | 1 | 1 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**3.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 1 | 0 | 1 | 1 |
| **B** | 0 | 0 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 0 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**4.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 1 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 0 | 0 | 0 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**5.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 0 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 0 | 0 | 1 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**6.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 0 | 1 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 0 | 1 | 0 | 0 |
| **C** | 1 | 0 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**7.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 0 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 0 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 0 | 1 |

**8.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 0 | 0 |
| **B** | 1 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 0 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 0 | 1 |

**9.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 0 | 0 | 0 | 1 | 0 |
| **D** | 1 | 0 | 0 | 0 | 1 | 1 |

**10.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 0 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 0 | 1 | 1 | 1 | 1 |

**11.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 0 | 0 | 0 | 0 |
| **B** | 0 | 1 | 0 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**12.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 1 | 1 | 1 | 0 |
| **D** | 1 | 0 | 0 | 1 | 1 | 1 |

**13.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 1 | 0 | 1 | 0 |
| **B** | 0 | 0 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 0 | 1 | 1 |

**14.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 1 | 1 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 1 | 1 |
| **D** | 1 | 0 | 1 | 1 | 1 | 1 |

**15.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 0 |
| **B** | 0 | 0 | 0 | 1 | 0 | 0 |
| **C** | 1 | 1 | 1 | 1 | 1 | 0 |
| **D** | 1 | 0 | 0 | 1 | 1 | 1 |

**16.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 1 | 0 |
| **C** | 1 | 1 | 0 | 0 | 1 | 1 |
| **D** | 1 | 1 | 1 | 1 | 1 | 1 |

**17.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 1 | 1 | 1 | 0 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**18.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 0 | 0 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 0 | 0 | 1 | 1 | 0 |
| **D** | 0 | 1 | 0 | 1 | 1 | 1 |

**19.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 1 | 0 | 0 | 1 | 1 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**20.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 0 | 1 | 0 | 0 | 1 | 1 |
| **D** | 1 | 0 | 0 | 1 | 1 | 1 |

**21.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 0 | 1 | 1 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**22.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 0 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 0 | 0 | 0 |
| **C** | 1 | 0 | 0 | 1 | 1 | 1 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**23.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 0 |
| **B** | 1 | 0 | 1 | 1 | 0 | 0 |
| **C** | 1 | 0 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 0 | 1 |

**24.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 0 | 0 |
| **D** | 0 | 1 | 1 | 1 | 1 | 1 |

**25.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 0 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 0 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 0 | 0 |

**26.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 0 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**27.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 0 | 0 | 1 | 0 |
| **B** | 0 | 0 | 1 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**28.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 1 |
| **B** | 0 | 1 | 1 | 1 | 0 | 1 |
| **C** | 1 | 1 | 0 | 1 | 1 | 0 |
| **D** | 1 | 1 | 1 | 1 | 0 | 1 |

**29.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 0 | 1 | 0 | 1 | 0 |
| **B** | 0 | 0 | 0 | 1 | 0 | 0 |
| **C** | 1 | 1 | 0 | 1 | 0 | 0 |
| **D** | 1 | 1 | 0 | 1 | 1 | 1 |

**30.**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Product\Reservation** | **1** | **2** | **3** | **4** | **5** | **6** |
| **A** | 1 | 1 | 1 | 0 | 1 | 0 |
| **B** | 0 | 1 | 1 | 1 | 0 | 0 |
| **C** | 1 | 0 | 0 | 1 | 1 | 1 |
| **D** | 1 | 0 | 1 | 0 | 1 | 0 |