



KELI

Das Zahlen- und Buchstaben-Puzzle

	A		A		B	1	B
	B		B	1	A		A
0	A		A		B		B
1	B		B		A		A

(c) Orges Leka

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Orges Leka

2025

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So funktioniert KELI

Ziel: Fülle jedes Feld mit einem Paar (*Zahl*, *Buchstabe*).

Regeln (pro Zeile und Spalte): jedes Paar genau $1\times$, jede Zahl genau $x\times$, jeder Buchstabe genau $y\times$.

Beispiel-Puzzle

0	A	0	B		B		A
0	B		A		A		B
	A		B		B		A
	B	1	A		A		B

Zahlen $2\times$, Buchstaben $2\times$

				(1)		(2)	
0	A	0	B	1	B	1	A
		(3)		(4)		(5)	
0	B	0	A	1	A	1	B
(6)		(7)		(8)		(9)	
1	A	1	B	0	B	0	A
(10)				(11)		(12)	
1	B	1	A	0	A	0	B

Puzzles

Puzzle 1 — ★★★

0	A	0	B		B		A
0	B		A		A		B
	A		B		B		A
	B	1	A		A		B

Zahlen 2×, Buchstaben 2×

Puzzle 2 — ★★

1	A	0	B	0	A		C		C	1	D		B	0	D
	C		D		C	1	A	0	A	0	B	0	D	1	B
0	A		B	1	A		C	0	C	0	D		B		D
1	D		C	0	D	0	B		B	1	A	1	C	0	A
	B	0	A		B	0	D	1	D	1	C	1	A		C
	D		C	1	D	1	B		B		A		C	1	A
0	B		A	1	B		D	0	D	0	C	0	A	1	C
	C	0	D	0	C		A		A		B	1	D	0	B

Zahlen 4×, Buchstaben 2×

	A		B	1	A		B		A	0	B
1	B		A		B		A	2	B		A
	A		B		A		B		A		B
	B		A		B	2	A		B		A
2	B		A		B		A		B	1	A
2	A		B		A	2	B		A		B

Zahlen 2×, Buchstaben 3×

Puzzle 4 — ★★★★★

0	B		A	0	A		
			B		B		
	B		A				B
0	A	1	B		B		

Zahlen 2×, Buchstaben 2×

Puzzle 5 — ★★★★★

	A		B	2	A		B				2	B			
	A	3	B			0	B					B			
2	A		B	1	A		B			B				A	
			A		B		A		B		A		A	B	
			A	2	B		A			1	A		A	B	
2	B	3	A		B	2	A				A		A	1	B
	A		B			3	B	3	A		B		B		
3	B	2	A	0	B		A								

Zahlen 2×, Buchstaben 4×

Puzzle 6 — ★★★

	D	1	B		D		A		A	0	C		C		B
	A	1	C		A	0	D		D	0	B		B		C
	C		A	1	C		B	1	B	0	D	1	D	0	A
	B	1	D		B	0	C		C	0	A		A	0	D
	D		B	0	D	1	A		A		C		C		B
	C		A		C		B		B		D		D		A
	A		C	0	A		D		D		B		B		C
1	B		D	0	B		C		C		A		A		D

Zahlen 4×, Buchstaben 2×

	D	1	C		D		A		B		B		C	0	A
0	A	0	B		A		D		C	1	C		B		D
1	C		D		C	1	B	1	A	0	A		D		B
0	B		A		B	0	C	0	D		D		A		C
0	D		C		D		A		B	1	B		C		A
	B		A		B	1	C		D		D	0	A	0	C
	C	0	D		C		B		A		A	1	D		B
	A	1	B		A		D		C		C		B	0	D

Zahlen 4×, Buchstaben 2×

	B		A		A	1	B
0	A		B	1	B		A
	B	1	A		A		B
	A		B		B		A

Zahlen 2×, Buchstaben 2×

	A	1	B	0	A	2	A	0	B	2	B
0	B	1	A	1	B		B	2	A	0	A
2	A		B	1	A	0	A	2	B	1	B
2	B	2	A		B		B	0	A	1	A
0	A		B	2	A	1	A		B	0	B
1	B		A	2	B	0	B	1	A	2	A

Zahlen 2×, Buchstaben 3×

		1	B		B	0	B		A		
	A				B	1	B		A	1	A
	B		A	0	A		A				B
2	A								A		A
	B				A	1	A	2	B		
	B		A				A			1	B

Zahlen 2×, Buchstaben 3×

3	A	0	A		B		B		A	0	B		A		B
1	B	0	B		A		A		B	0	A		B		A
	A		A		B		B	1	A	1	B		A		B
	A		A	0	B	3	B		A		B		A		B
	B		B		A		A	1	B		A	2	B		A
	B		B	1	A	2	A		B		A		B		A
0	A		A		B		B		A		B		A	2	B
	B		B		A	1	A	0	B		A		B		A

Zahlen 2×, Buchstaben 4×

0	D		C		D		B	0	B	1	C		A	1	A
	A	1	B	0	A		C		C		B	1	D		D
	D	1	C		D		B		B	0	C	1	A	0	A
	B		A	0	B		D	1	D		A		C		C
0	A		B		A		C	0	C	1	B		D		D
	C	0	D	1	C		A		A		D		B		B
	B	0	A		B		D		D		A		C	1	C
	C		D		C	0	A		A		D		B	0	B

Zahlen 4×, Buchstaben 2×

0	A	1	B	0	B		A
1	A		B	1	B		A
	B		A	0	A		B
1	B	0	A		A	0	B

Zahlen 2×, Buchstaben 2×

	B	0	B		A		A
	B		B	1	A		A
	A		A		B	0	B
1	A		A		B		B

Zahlen 2×, Buchstaben 2×

	B		A		B	2	B		A		A
	A	1	B		A		A		B		B
	A		B		A	1	A		B		B
	B	1	A		B		B		A		A
0	A		B	1	A		A		B	0	B
	B		A	1	B		B	0	A		A

Zahlen 2×, Buchstaben 3×

1	B	2	A		A	0	A		B				A		
3	B		A		A		A					3	A	0	B
		2	B		B			0	A		A			2	A
	A							1	A		A				A
	B	3	A						B		B		A	1	B
	A				B				A	3	A	1	B		A
			A						B	0	B	0	A		B
			B		B	1	B		A	0	A	0	B		

Zahlen 2×, Buchstaben 4×

Puzzle 17 — ★★★★★

[illegible]

Zahlen 2×, Buchstaben 4×

	A			B	1	A
A	0	B				A
		0	A	A		
0	B		A	A		

Zahlen 2×, Buchstaben 2×

0			B			0	B
			A	1	B		
							B
					B	1	A

Zahlen 2×, Buchstaben 2×

	B		A	1	A	1	B
	A	1	B		B		A
1	B		A	0	A	0	B
0	A		B	1	B	1	A

Zahlen 2×, Buchstaben 2×

1	B	0	B	1	A		A
	A	0	A	1	B	0	B
0	B	1	B	0	A	1	A
0	A		A	0	B	1	B

Zahlen 2×, Buchstaben 2×

0	B		B	0	A	1	A
0	A	1	A	0	B	1	B
1	B	0	B		A		A
1	A	0	A	1	B	0	B

Zahlen 2×, Buchstaben 2×

			A	2	B					1	A
	B		B	2	A		A			1	B
0	A		A	1	B	2	B				
	A		A				B		B		A
			B			0	A		A		B
2	B				A		A		A		B

Zahlen 2×, Buchstaben 3×

1	A	1	D	1	C	0	C	1	B		D	0	B		A
1	B		C	1	D		D	1	A		C	0	A		B
0	D	0	A	0	B	1	B	0	C	1	A	1	C	1	D
1	C	1	B	1	A	0	A	1	D	0	B	0	D	0	C
1	D		A		B		B	1	C	0	A		C	0	D
0	C		B	0	A	1	A	0	D		B	1	D	1	C
0	A	0	D	0	C	1	C	0	B	1	D	1	B	1	A
0	B	0	C	0	D	1	D		A	1	C	1	A	1	B

Zahlen 4×, Buchstaben 2×

3	B					A	2	B		B	2	A			
	A			3	B	0	B	3	A	1	A		B	B	
	B				A	1	A		B		B			A	
	A		A						A	2	A		B	1	B
	A	2	A		B	2	B		A		A				B
	B		B		A		A		B	1	B	1	A	0	A
1	A										A	2	B		
2	B		B				A		B					2	A

Zahlen 2×, Buchstaben 4×

0	B						
	B	0	A				
					A	1	B
0	A				A		

Zahlen 2×, Buchstaben 2×

	D	1	C	1	A	0	A		B		B	0	C		D
0	B		A	0	C		C		D		D	1	A	1	B
0	A	0	B	0	D	1	D	0	C		C	1	B		A
	C		D		B	0	B		A	0	A	0	D	0	C
1	B	1	A	1	C		C	1	D	0	D		A	0	B
	C		D		B		B	0	A	1	A	1	D	1	C
	A		B	1	D		D	1	C	0	C	0	B		A
0	D		C		A	1	A	0	B		B	1	C	1	D

Zahlen 4×, Buchstaben 2×

0	A	1	A	0	B	1	B
0	B		B		A	1	A
1	B		B	1	A	0	A
1	A	0	A	1	B	0	B

Zahlen 2×, Buchstaben 2×

1	B	1	A		B		A
0	B	0	A	1	B		A
0	A		B	1	A	1	B
	A		B		A	0	B

Zahlen 2×, Buchstaben 2×

	A			0	B			2	B	2	A
0	A		B				A				
			A					2	A		B
			B	2	B						A
0	B										
			A	0	A		B			1	B

Zahlen 2×, Buchstaben 3×

0	C		A		D		B	1	D		A	0	B	1	C
	B		D		A		C	1	A	1	D	0	C	1	B
	A	1	C		B	0	D	0	B		C		D		A
	B		D		A	0	C		A		D		C		B
	D		B		C		A		C	0	B		A		D
0	D		B	0	C	1	A		C		B		A		D
1	C		A		D		B		D	0	A		B		C
	A		C		B		D		B	1	C		D	1	A

Zahlen 4×, Buchstaben 2×

	B	0	A	1	A		A		B	2	B
	B		A	0	A		A	2	B		B
	A	0	B		B	1	B		A		A
1	A	2	B	1	B	0	B	0	A		A
2	B		A	2	A		A	0	B	1	B
2	A	1	B		B		B	1	A	0	A

Zahlen 2×, Buchstaben 3×

	A	1	A	0	B		B
	B		B		A	0	A
	B	1	B		A		A
	A		A		B		B

Zahlen 2×, Buchstaben 2×

		0	C					1	B	1	A					C
	D						C		C	1	D					B
			C		D								0	D		C
	B				C	0								C	1	D
					B	0	D		D	1				B		
			A	1	B		D				C				0	A
					1	C		A			0	B				D
			1	B				1	C					0	A	B

Zahlen 4×, Buchstaben 2×

	B	2	A		A	1	B		B		A
2	B		A		A	0	B	1	B		A
	B		A	0	A	2	B	0	B	2	A
	A	1	B	2	B	2	A		A		B
1	A		B	1	B	0	A		A		B
2	A	2	B		B	1	A	0	A	1	B

Zahlen 2×, Buchstaben 3×

			A		B			B
				1 D	0 A	B	D	A
						0 D		
0 D		0 A			0 B	A	0 C	B
B	1 B	0 C	1 A				A	
1 C		C	1 B					
0 A				B			0 B	1 C
	B	C	A	D			A	0 D

Zahlen 4×, Buchstaben 2×

2	B		A		B	0	A	3	B	1	A		B		A
1	B		A	0	B	1	A		B		A		B		A
2	A		B	3	A	0	B		A	3	B		A	1	B
3	A		B	0	A	3	B	2	A	2	B	1	A		B
3	B	1	A		B	3	A	0	B	0	A		B		A
0	A	0	B		A		B		A	1	B	2	A	3	B
	A	3	B		A	1	B		A		B	3	A	2	B
	B	0	A	3	B	2	A	1	B		A		B	1	A

Zahlen 2×, Buchstaben 4×

	A		A	0	A	1	B		B		B	0	B	3	A
1	B	2	B	3	B		A		A	2	A		A		B
2	B	3	B	0	B		A	2	A		A	0	A		B
	B	0	B	1	B		A	1	A		A		A	2	B
0	B		B	2	B	1	A		A		A		A		B
3	A	2	A		A		B	1	B		B	3	B		A
1	A		A	3	A	2	B		B	0	B	1	B	2	A
0	A	3	A	2	A	3	B	0	B	1	B		B	1	A

Zahlen 2×, Buchstaben 4×

1								0	A		
	A					2	A				
	A			2	A		B	1	A	2	B
			A					2			A
				B			1	B			
			A				1	A			A

Zahlen 2×, Buchstaben 3×

						0	B		D	0		A		
0		0	A				A				1	B		
					D	1	C	1	A		B	1	D	
	C				A			1	D			1	A	
	B				D				A	0	B		D	
			A				A	0	C				C	
0	A								B				B	
	A	1	D	1			D		B				1	B

Zahlen 4×, Buchstaben 2×

1	A	0	B		A		A		B	1	B
	B		A		B	1	B	0	A	1	A
	B	1	A	0	B		B	2	A	0	A
	B		A		B	0	B	1	A	2	A
2	A	2	B	0	A	1	A		B	0	B
0	A		B		A		A	0	B		B

Zahlen 2×, Buchstaben 3×

2	A	0	A	0	B	1	B	3	B	1	A	3	A	2	B
1	A	3	A		B		B	0	B		A		A	3	B
0	B	2	B	2	A		A		A	1	B	3	B	0	A
3	A	1	A		B	0	B	2	B		A	0	A	1	B
3	B	1	B	3	A	2	A		A	0	B		B	1	A
2	B	0	B	0	A	3	A	1	A	3	B	1	B	2	A
0	A	2	A	2	B		B	1	B	3	A	1	A		B
1	B	3	B	1	A	0	A	2	A	2	B		B	3	A

Zahlen 2×, Buchstaben 4×

0			2 B	2 A		
			B	0 A	B	0 B
0 B			1 A	1 B	0 A	
			0 A	B		
A						
				0 B		

Zahlen 2×, Buchstaben 3×

1	B	0	B	0	A	1	A		B		A		B		A
	A		A		B		B		A	1	B	2	A		B
	A	0	A		B			2	A		B		A		B
	B	2	B		A		A		B		A		B		A
	B		B		A		A	1	B	3	A	2	B		A
1	A		A		B	1	B		A	0	B		A		B
	A		A		B		B	1	A		B		A	2	B
	B		B		A		A		B	1	A		B	2	A

Zahlen 2×, Buchstaben 4×

	B		B		A	2	B		A		B		A	0	A
	B		B		A		B	3	A	1	B		A	2	A
	B		B		A		B	2	A		B		A	1	A
3	A		A		B		A	3	B		A		B		B
	A	2	A		B		A	1	B		A		B	2	B
	A		A	2	B	1	A		B	0	A		B		B
2	B		B	2	A	3	B		A		B		A		A
0	A		A		B		A		B		A		B	3	B

Zahlen 2×, Buchstaben 4×

0	A			A	2	B	0	B		
	B		B			0	A	2	A	
2	B		B			2	A		A	A
	A			2	A			2	B	
		1	B				A		A	
	A		A		A		B		B	

Zahlen 2×, Buchstaben 3×

0	B		A	3	B		A	3	A		B	1	B	0	A
0	A	2	B	1	A		B	1	B		A	3	A	0	B
3	B		A	2	B		A	0	A	1	B	0	B		A
	A	0	B	3	A	1	B		B		A		A	2	B
1	B		A	0	B		A		A		B		B	3	A
3	A	3	B		A		B	2	B	1	A	2	A		B
1	A		B		A		B		B		A		A		B
2	B	0	A	1	B	3	A		A	0	B	3	B	2	A

Zahlen 2×, Buchstaben 4×

1	D		B	0	D	0	C	1	C	0	B		A	0	A
	D		B	1	D	1	C		C		B	0	A	1	A
1	C	1	A		C	0	D	1	D		A	1	B	0	B
0	B	0	D	1	B	1	A	0	A	1	D	0	C		C
	A		C	1	A	1	B	0	B	1	C	0	D		D
1	B		D		B		A		A		D		C		C
	A	1	C		A	0	B	1	B		C	1	D		D
0	C	0	A	1	C		D		D		A	0	B	1	B

Zahlen 4×, Buchstaben 2×

	A						A	0		
3	A	A			2		A	B	1	B
	A		2		B					
		B				A			0	A
	B	3	B	B		2	A		1	
		B	2		A	A				
2	B			1	B		1	A		A
	A	2	A	1	A		1	B	A	

Zahlen 2×, Buchstaben 4×

3	B		A		B	0	B		B				A	3	A
1	B		A		B						A	2	A		A
	B		A	0	B		B			3	A		A		A
		2	B								B		B		
3	A				A	2	A		A	0	B	2	B		B
1	A	3	B		A								B		B
	B	0	A		B	1	B		B	1	A				
	A		B	2	A			1				1	B		

Zahlen 2×, Buchstaben 4×

			B		B		
1	B						
0	A	1	B				A
		1	A				

Zahlen 2×, Buchstaben 2×

	A		B	1	B	0	A
			A		A	1	B
					B		A
			A	1	A		B

Zahlen 2×, Buchstaben 2×

B		1	A	0	D	C		D				
					C	D		C				
	B	1		0	C		1	D	C	0		
	D							1		0	C	
			A		D	1	C	C		1	B	
	D	0	D			1	B	B				
			C		B			A	1	B	0	D
D			0	C		B	1	A	A			

Zahlen 4×, Buchstaben 2×

	A		A		B		A		B		B
0	B		B		A	2	B	2	A		A
	B		B		A	0	B		A		A
2	A		A		B		A	2	B		B
	A	0	A		B		A		B	1	B
	B		B	1	A		B		A		A

Zahlen 2×, Buchstaben 3×

					A		
						1	B
		1	B	0	A		
1	A		A		B		

Zahlen 2×, Buchstaben 2×

0	A		B	0	B	1	A
1	A	0	B		B	0	A
	B	1	A		A	1	B
	B	0	A		A		B

Zahlen 2×, Buchstaben 2×

1	A	1	C	0	D	1	D	0	C	0	B	1	B	0	A
1	C		A		B	1	B		A		D		D	0	C
1	D	1	B	0	A	1	A	0	B	0	C	1	C	0	D
1	B	1	D		C	1	C	0	D	0	A	1	A	0	B
	A		C	1	D		D	1	C	1	B	0	B	1	A
0	C	0	A	1	B	0	B	1	A	1	D	0	D	1	C
	B	0	D	1	C		C	1	D		A	0	A	1	B
	D	0	B	1	A	0	A	1	B	1	C	0	C	1	D

Zahlen 4×, Buchstaben 2×

	B		C	1	D		B		C		A		D		A
	D		A		B		D		A		C	1	B		C
1	C	0	B	0	A		C	1	B	0	D		A		D
0	A		D	1	C	1	A		D		B		C	0	B
1	B		C		D	0	B	1	C		A	1	D	1	A
	C		B		A		C		B		D		A		D
	A		D		C	0	A	1	D		B		C		B
0	D	1	A		B		D		A	1	C		B		C

Zahlen 4×, Buchstaben 2×

				2 B	B		3 A	2 A
0 A		1 A						B
					1		3	0 B
B		2 B	1 B			1 A	0 A	
	A	B		3 B	A	A	0 A	
	2 B		A					B
3 A				2				3 B
B	A						A	A

Zahlen 2×, Buchstaben 4×

0	B	2	B	1	A	1	B	0	A	2	A		B		A
2	A		A	1	B	1	A	2	B	0	B	3	A	3	B
3	B	1	B	2	A	0	B	1	A		A	2	B	0	A
1	A	3	A	2	B		A		B	1	B		A	0	B
	A		A	0	B	2	A	1	B		B	0	A	2	B
1	B	3	B	0	A	2	B		A	1	A	0	B	2	A
2	B		B		A	3	B	2	A	0	A	1	B		A
0	A	2	A	3	B	3	A	0	B	2	B	1	A	1	B

Zahlen 2×, Buchstaben 4×

1	B		A	1	A	0	B
0	B		A	0	A	1	B
1	A	0	B	1	B		A
0	A	1	B	0	B	1	A

Zahlen 2×, Buchstaben 2×

	A		B	2	B		A		A	0	A		B	3	B
	B		A		A	0	B		B		B	2	A		A
2	A	1	B		B		A	1	A		A		B	0	B
	B		A		A	1	B		B	2	B	1	A		A
	B		A	2	A		B		B		B		A		A
1	A		B	0	B		A		A		A		B		B
	A		B		B		A		A		A		B		B
	B	1	A	3	A		B	1	B	3	B		A		A

Zahlen 2×, Buchstaben 4×

	A		A		A	1	B		B		B
1	A	0	A	2	A	0	B		B	2	B
	A		A	0	A	2	B	0	B	1	B
2	B		B	1	B		A	2	A	1	A
	B	2	B	0	B		A		A	2	A
0	B	1	B		B	2	A	1	A		A

Zahlen 2×, Buchstaben 3×

	B	1	B	1	A		A
	B		B		A		A
	A		A		B		B
1	A		A	0	B	1	B

Zahlen 2×, Buchstaben 2×

	A		B				A	3	B					1	A	
0	B	0	A				B			1				B	B	
	B			1	A				A					B	2	B
	A						A	2	B				1	A	2	A
	A	3	B	1	B									A		A
3	B		A		A		B	0	A		A		1	B		B
			2	A		A	1	B								B
0	A		B	2	B		A		B		B			A		

Zahlen 2×, Buchstaben 4×

1	B		A		C	1	A	0	D	1	D	0	B		C
1	D		C		A	1	C	0	B	1	B	0	D	1	A
0	B	1	A	1	C	0	A	1	D	0	D		B	0	C
1	C	0	D	0	B	1	D	0	A	1	A	0	C	1	B
0	C	1	D	1	B		D	1	A	0	A	1	C	0	B
	A	0	B		D	1	B		C	1	C	0	A	1	D
0	D	1	C	1	A	0	C	1	B	0	B		D	0	A
0	A	1	B	1	D	0	B		C	0	C	1	A	0	D

Zahlen 4×, Buchstaben 2×

	A		B		B				B		
0	B	0	A								
			A								
			B	0	B			2	B	0	A
1	A				B			0	B		A
						2		1			

Zahlen 2×, Buchstaben 3×

	D	1	A	0	C		D		C	0	A	1	B	0	B
	B		C	1	A	0	B	0	A		C		D	1	D
1	D		A	1	C		D	0	C		A		B	1	B
0	B	1	C	0	A	1	B	1	A		C		D	0	D
	C		B		D	0	C	0	D	1	B	0	A		A
1	A		D	1	B	0	A	0	B	1	D		C		C
	A	1	D	0	B		A		B	0	D		C	0	C
0	C		B	0	D		C	1	D	0	B	1	A	0	A

Zahlen 4×, Buchstaben 2×

		0 A	B		B		0 B	
					2 B		1 B	
		B	3 A		A	A		B
			A			3 A	A	1
2 B			A			A	0 A	
		1 B	1 A			0 A		0 B
3				0 A			B	
		2 A	0 B	1 A	3 B			

Zahlen 2×, Buchstaben 4×

	A	1	A			1	B
B			B				
A			A				B
		0	B		A	0	A

Zahlen 2×, Buchstaben 2×

2	A	2	B		B	0	A		B	1	A
1	B		A	2	A		B	0	A	2	B
1	A	0	B	2	B		A	1	B	0	A
0	B	2	A	0	A	2	B	1	A	1	B
	B	0	A	1	A	1	B	2	A	0	B
0	A	1	B	0	B		A	2	B		A

Zahlen 2×, Buchstaben 3×

1	A	0	A	1	B	0	B	2	B	2	A
	B		B	2	A	0	A	1	A	1	B
0	A		A		B	1	B	0	B	1	A
	B		B	0	A	1	A	2	A	0	B
0	B	1	B	1	A		A	0	A	2	B
2	A	1	A	0	B	2	B	1	B		A

Zahlen 2×, Buchstaben 3×

2	A	0	B	1	A		A	2	B		B	3	B		A
0	B	2	A	1	B	3	B	0	A		A	3	A	2	B
	B		A	0	B		B		A		A	0	A	1	B
	A		B		A	1	A	0	B	3	B		B	2	A
3	A	3	B		A		A	1	B	0	B	2	B		A
2	B	0	A		B	1	B		A	3	A		A		B
1	B	1	A	2	B	0	B		A	0	A		A	3	B
	A	1	B	0	A	2	A		B		B	0	B		A

Zahlen 2×, Buchstaben 4×

0	A		B	1	A	1	B		B	2	A
2	A		B	0	A	2	B	0	B	1	A
0	B	0	A	2	B		A	1	A		B
1	A	2	B	2	A	0	B	1	B	0	A
	B	2	A	0	B		A	0	A	2	B
2	B	1	A	1	B		A	2	A	0	B

Zahlen 2×, Buchstaben 3×

	A		A	0	B		B		B	2	A
	A	0	A		B	2	B		B		A
	B	1	B	1	A		A		A	0	B
	B		B	0	A		A	1	A		B
	B	0	B		A		A		A		B
	A				B		B		B		A

Zahlen 2×, Buchstaben 3×

0	A		A	2	B	2	A	0	B	3	B		B	3	A
	A	3	A	0	B	0	A		B	1	B	3	B	1	A
1	A	2	A	1	B	3	A	3	B	2	B		B	0	A
3	A	0	A		B	1	A	1	B	0	B	2	B	2	A
	B	1	B	0	A	0	B	2	A		A	1	A	3	B
	B	3	B	2	A	2	B	0	A	1	A	3	A	1	B
1	B	0	B	1	A		B	3	A	0	A	2	A		B
3	B	2	B		A	1	B	1	A	2	A	0	A		B

Zahlen 2×, Buchstaben 4×

0	B	1	A	1	B	1	D	0	D	0	C	1	C	0	A
1	B	0	A	0	B		D	1	D	1	C		C	1	A
	C	0	D	0	C	0	A	1	A	1	B	0	B	1	D
0	D	1	C	1	D	1	B	0	B	0	A	1	A	0	C
0	A	1	B		A	1	C		C		D	1	D	0	B
	D	0	C	0	D	0	B	1	B	1	A		A	1	C
0	C	1	D	1	C	1	A	0	A		B		B		D
	A		B	0	A	0	C	1	C	1	D	0	D	1	B

Zahlen 4×, Buchstaben 2×

		B		2 B	A	A
B			A		B	B
	B	B			2 A	A
			1 A	A	0 B	B
	0 A	A			2 B	0 B
1 A	1 B	B	B	A		

Zahlen 2×, Buchstaben 3×

	A		A		B				C		C		B	0	D
	A	1	A	0	B				C	1	C		B		D
	C		C				B		A		A				B
	B				A				D	0	D				C
			D			0	A	0	B		B	1	C		A
1	C		C		D	1	B	1	A		A	0	D		
		1	B	0	A		C		D		D		A	1	C
	D	0	D				A		B		B				A

Zahlen 4×, Buchstaben 2×

	A	0	C		D		C		B	1	B		D		
			D		C	1	D			1	A	1	C	1	B
	D		B	0	A	1	B	0	C		C		A		
1	D		B		A		B				C		A		D
	C				B	0	A				D				C
	C				B		A	0	D			1	B	1	C
	B		D				D		A				C		B
			C	1	D				B		B		D	0	A

Zahlen 4×, Buchstaben 2×

1	B			A	D	D		B	A		
	D	A	C	B	B		1	D			
		B	0	D	A	A	B	C	D		
	B	0	C		0	D	D	C	1	A	
1	C	1	B			0	A	B		D	
1	A		D	1	B			D	A	B	
	D	1	A	1	C	1	B	B	A	D	C
	A	0	D		B	C	1	C	D		B

Zahlen 4×, Buchstaben 2×

3	A	2		0	B	1	A										
1	A						A		B	1	B						
					B			1	B	2	B						
		3	B	3			B				A		B				
2	A	1	A		B				B		B						
	B	2	B			3	B									3	A
0	B			1	A		B									0	A
								0						B			

Zahlen 2×, Buchstaben 4×

0	B		A		A		B	1	B		A	3	A	2	B
1	A		B		B	2	A	0	A		B	0	B		A
3	A	0	B		B	0	A	2	A	3	B		B		A
	B	2	A		A		B	0	B		A	0	A	1	B
2	B		A	2	A	1	B	3	B	0	A	1	A		B
1	B	0	A	3	A		B	2	B		A		A	3	B
	A		B		B		A	3	A	2	B		B	2	A
	A	1	B	2	B	3	A	1	A	0	B	3	B		A

Zahlen 2×, Buchstaben 4×

	B		A	0	A	0	B
0	A	0	B	1	B	1	A
1	A	1	B	0	B	0	A
0	B	0	A	1	A		B

Zahlen 2×, Buchstaben 2×

	B		A	0	B		A
	A		B	0	A		B
0	A	1	B	1	A		B
0	B	1	A	1	B	0	A

Zahlen 2×, Buchstaben 2×

	B		D	0	C	0	D	0	B	1	A	0	A		C
	A	1	C	0	D	0	C	0	A	1	B	0	B		D
0	A	0	C	1	D	1	C		A	0	B	1	B	0	D
	D		B	0	A	0	B	0	D	1	C	0	C	1	A
0	D	0	B	1	A	1	B	1	D	0	C	1	C	0	A
	C	1	A	0	B	0	A	0	C		D	0	D	1	B
	B	0	D	1	C	1	D	1	B	0	A	1	A		C
0	C	0	A	1	B	1	A	1	C		D	1	D	0	B

Zahlen 4×, Buchstaben 2×

3	B		A	0	B	1	B	3	A		A	0	A		B
1	B	3	A	2	B	3	B	1	A	0	A	2	A	0	B
1	A	3	B		A	3	A	1	B		B		B		A
3	A	1	B	2	A	1	A		B		B	2	B	0	A
2	A	2	B	1	A	0	A	0	B		B	3	B	3	A
0	B	0	A	1	B	2	B	2	A	1	A	3	A		B
0	A	0	B	3	A	2	A	2	B	3	B	1	B	1	A
	B	2	A	3	B		B	0	A	3	A	1	A	1	B

Zahlen 2×, Buchstaben 4×

	B		A	0	B		A		B		A	1	A		B
	B		A		B		A		B		A		A		B
1	B	3	A		B		A	2	B		A	2	A		B
	A		B		A		B	2	A		B		B	0	A
1	A	3	B		A		B		A	2	B	0	B		A
0	A	0	B		A		B	3	A	3	B		B		A
	A		B		A		B		A		B	3	B		A
	B		A		B	2	A	1	B	1	A		A		B

Zahlen 2×, Buchstaben 4×

2	A	0	B	2	B	1	A		B	0	A
1	B		A	1	A		B	2	A	0	B
	A	1	B		B	0	A	2	B		A
	B		A	2	A	1	B		A		B
2	B	2	A		A		B	1	A	1	B
	A	2	B		B		A	0	B	1	A

Zahlen 2×, Buchstaben 3×

2	B	3	A	0	B	0	A	1	A	3	B		A	1	B
	A	3	B		A	2	B	1	B		A		B	1	A
3	B	2	A	1	B	3	A	0	A		B	1	A		B
3	A	0	B	1	A	3	B	2	B	2	A	1	B	0	A
0	B		A	2	B		A	3	A	1	B	0	A	3	B
1	A	2	B	3	A	1	B	0	B	0	A		B		A
1	B		A	3	B	1	A	2	A	2	B	3	A	0	B
2	A	1	B	0	A	0	B	3	B	1	A	2	B		A

Zahlen 2×, Buchstaben 4×

	A		B	0	B	1	A	2	B	0	A
2	B		A	2	A	0	B	0	A	1	B
	B	0	A	1	A	1	B	2	A		B
1	A		B	1	B		A	0	B	2	A
1	B	2	A	0	A	2	B	1	A		B
0	A	0	B	2	B	2	A	1	B	1	A

Zahlen 2×, Buchstaben 3×

		B	B	0	D	C		0	A	0	C
		0	B	B	D	C	D		A		C
0	D				1	A	B		D	1	B
	C	1	D		0	B	A				
B		A	A		C	D	C		B	1	D
	C		D	D	B	0	A	B	1	C	
B		A	0	A	0	C	D	C	0	B	D
	D		C	0	C		B	A		D	

Zahlen 4×, Buchstaben 2×

				0	A		
						1	A
A				1	B		A
1	B		A				

Zahlen 2×, Buchstaben 2×

0	A		A			0	B		A		B
		0	B		A		A		B	2	A
			B		A		A	2	B		
	B			1	A		A		B		
	A							2	A	1	B
	A		A		B				A		B

Zahlen 2×, Buchstaben 3×

	C	0	D	0	A			A			B	0	B
A		B					1		1	A	D		
B				0	D	A							C
			D							0	C		B
0	D					1	C			D	A		
1	B					0	A		D			0	C
			C				C	0	B			0	A
	A	1	B									0	D

Zahlen 4×, Buchstaben 2×

	B		A		B		A
1	B				B	0	A
			B		A		
0	A	0	B		A		

Zahlen 2×, Buchstaben 2×

	D	0	C		A	1	A		B		B	1	D	1	C
	B	0	A	0	C		C	0	D	1	D	1	B		A
1	A		B		D	0	D		C	0	C	0	A	0	B
	C		D		B	1	B		A		A	1	C		D
1	C	1	D	1	B		B	1	A	0	A	0	C	0	D
	B		A		C		C		D		D	0	B	0	A
1	D	1	C	1	A	0	A	1	B	0	B	0	D	0	C
	A		B		D	1	D	0	C	1	C	1	A	1	B

Zahlen 4×, Buchstaben 2×

	D			B	A			C	A	C		
0	A	A	C	D				B	0	D	1	B
1	D			0	B	0	A	B	C	A	0	C
	B	B			C	1	D	A	C			
1	C			A	0	B	A	D	B	0	D	
	A	A					1	C	B	D	B	
0	B	B	D	1	C		D	A	C	1	A	
	C	C	1	A	B			D	B			

Zahlen 4×, Buchstaben 2×

	B	1	A	1	B		B		A		A
	A		B		A		A		B		B
	A	0	B		A	0	A		B		B
	A		B	2	A		A		B	1	B
	B		A		B	0	B	2	A		A
	B	2	A		B		B		A		A

Zahlen 2×, Buchstaben 3×

0	A					A			A	
				1	B		2		A	
							2	A		
						2	B			
2	B	0	A			1	B	A		
	A					A	1	B	1	A

Zahlen 2×, Buchstaben 3×

Lösungen

Lösung 1 — ★★★

(1) 0	A	0	B	(1) 1	B	(2) 1	A
0	B	(3) 0	A	(4) 1	A	(5) 1	B
(6) 1	A	(7) 1	B	(8) 0	B	(9) 0	A
(10) 1	B	1	A	(11) 0	A	(12) 0	B

1	A	0	B	0	A	(25)	0	C	(1)	1	C	1	D	(2)	1	B	0	D		
(26)	0	C	(3)	1	D	(4)	1	C	1	A	0	A	0	B	0	D	1	B		
0	A	(5)	1	B	1	A	(6)	1	C	0	C	0	D	(7)	0	B	(8)	1	D	
1	D	(9)	0	C	0	D	0	B	(10)	1	B	1	A	1	C	0	A			
(11)	1	B	0	A	(12)	0	B	0	D	1	D	1	C	1	A	(13)	0	C		
(14)	0	D	(15)	1	C	1	D	1	B	(16)	0	B	(17)	0	A	(18)	0	C	1	A
0	B	(19)	1	A	1	B	(20)	1	D	0	D	0	C	0	A	1	C			
(21)	1	C	0	D	0	C	(22)	0	A	(23)	1	A	(24)	1	B	1	D	0	B	

(1) 0	A	(17) 2	B	1	A	(2) 1	B	(3) 2	A	0	B
1	B	(27) 0	A	(4) 0	B	(18) 1	A	2	B	(19) 2	A
(5) 1	A	(20) 1	B	(21) 2	A	(6) 0	B	(7) 0	A	(22) 2	B
(8) 0	B	(23) 1	A	(24) 2	B	2	A	(9) 1	B	(10) 0	A
2	B	(25) 2	A	(11) 1	B	(12) 0	A	(13) 0	B	1	A
2	A	(26) 0	B	(14) 0	A	2	B	(15) 1	A	(16) 1	B

0	B	(1) 1	A	0	A	(2) 1	(3) B
(12) 1	(13) A	(4) 0	B	(5) 1	B	(14) 0	(15) A
(6) 1	B	(7) 0	A	(16) 1	(17) A	(8) 0	B
0	A	1	B	(9) 0	B	(10) 1	(11) A

(58) 3	A	(11) 0	B	2	A	(1) 1	B	(59) 1	A	(60) 3	B	(61) 2	B	(63) 0	A	(64)
(41) 0	A	3	B	(26) 3	A	(27) 0	B	(65) 2	A	(66) 2	B	(42) 1	B	(2) 1	A	(44) (45)
2	A	(12) 1	B	1	A	(3) 2	B	(46) 0	A	(47) 0	B	(48) 3	B	(28) 3	A	(29) (49)
(30) 0	B	(31) 1	A	(13) 1	B	(14) 0	A	(15) 2	B	(50) 2	A	(32) 3	A	(16) 3	B	(51)
(33) 1	B	(34) 0	A	(4) 2	B	(5) 3	A	(35) 3	B	(36) 1	A	(6) 2	A	(37) 0	B	
2	B	3	A	(7) 3	B	2	A	(17) 0	B	(18) 0	A	(8) 1	A	(9) 1	B	
(38) 1	A	(19) 2	B	(20) 0	A	(21) 3	B	3	A	(22) 1	B	(10) 0	B	(39) 2	A	(40)
3	B	2	A	0	B	(23) 1	A	(52) 1	B	(53) 3	A	(54) 0	A	(24) 2	B	(25) (56) (57)

(44)	0	D	1	B	(1)	1	D	(2)	0	A	(3)	1	A	0	C	(4)	1	C	(5)	0	B
(45)	0	A	1	C	(6)	1	A	(7)	0	D	(8)	1	D	0	B	(9)	1	B	(10)	0	C
(11)	0	C	1	A	(12)	1	C	(13)	0	B	(14)	1	B	0	D	(15)	1	D	(16)	0	A
(17)	0	B	1	D	(18)	1	B	(19)	0	C	(20)	1	C	0	A	(21)	1	A	(22)	0	D
(23)	1	D	0	B	(24)	0	D	(25)	1	A	(26)	0	A	1	C	(27)	0	C	(28)	1	B
(29)	1	C	0	A	(30)	0	C	(31)	1	B	(32)	0	B	1	D	(33)	0	D	(34)	1	A
(35)	1	A	0	C	(36)	0	A	(37)	1	D	(38)	0	D	1	B	(39)	0	B	(40)	1	C
(41)	1	B	0	D	(42)	0	B	(43)	1	C	(44)	0	C	1	A	(45)	0	A	(46)	1	D

(1)	1	D	1	C	(2)	0	D	(3)	1	A	(41)	1	B	(4)	0	B	(5)	0	C	0	A
0	A	0	B	(6)	1	A	(42)	0	D	(7)	0	C	1	C	(8)	1	B	(9)	1	D	
1	C	(10)	1	D	(11)	0	C	1	B	1	A	0	A	(12)	0	D	(13)	0	B		
0	B	(43)	0	A	(14)	1	B	0	C	0	D	(15)	1	D	(16)	1	A	(17)	1	C	
0	D	(18)	0	C	(19)	1	D	(20)	0	A	(21)	0	B	1	B	(22)	1	C	(23)	1	A
(24)	1	B	(25)	1	A	(26)	0	B	1	C	(27)	1	D	(28)	0	D	0	A	0	C	
(29)	0	C	0	D	(30)	1	C	(31)	0	B	(32)	0	A	(33)	1	A	1	D	(34)	1	B
(35)	1	A	1	B	(36)	0	A	(37)	1	D	(38)	1	C	(39)	0	C	(40)	0	B	0	D

(1) 0	B	(2) 0	A	(3) 1	A	1	B
0	A	(4) 0	B	1	B	(5) 1	A
(6) 1	B	1	A	(7) 0	A	(8) 0	B
(9) 1	A	(10) 1	B	(11) 0	B	(12) 0	A

(1)	1	A	1	B	0	A	2	A	0	B	2	B	
0	B	1	A	1	B	(2)	2	B	2	A	0	A	
2	A	(3)	0	B	1	A	0	A	2	B	1	B	
2	B	2	A	(4)	0	B	(5)	1	B	0	A	1	A
0	A	(6)	2	B	2	A	1	A	(7)	1	B	0	B
1	B	(8)	0	A	2	B	0	B	1	A	2	A	

(15) 1	(16) A	1	B	(1) 2	B	0	B	(17) 0	A	(18) 2	(19) A
(2) 0	A	(20) 2	B	(3) 0	B	1	B	(4) 2	A	1	A
(38) 0	B	(22) 1	A	0	A	(5) 2	A	(23) 1	B	(24) 2	B
2	A	(26) 0	B	(28) 1	B	(30) 2	B	(32) 1	A	(6) 0	A
(33) 1	B	(34) 0	A	(7) 2	A	1	A	2	B	(8) 0	(9) B
(36) 2	B	(37) 2	A	(10) 1	A	(12) 0	A	(13) 0	B	(14) 1	B

(3) A	0 A	(40) 2 B	(41) 1 B	(1) 2 A	0 B	(2) 1 A	(24) 3 B
1 B	0 B	(25) 2 A	(3) 3 A	(26) 2 B	0 A	(4) 3 B	(27) 1 A
(5) 2 A	(6) 3 A	(42) 3 B	(43) 2 B	1 A	1 B	(7) 0 A	(28) 0 B
(8) 1 A	(9) 2 A	0 B	3 B	(29) 0 A	(10) 2 B	(11) 3 A	(12) 1 B
(30) 0 B	(13) 3 B	(31) 3 A	(14) 0 A	1 B	(32) 1 A	2 B	(33) 2 A
(44) 2 B	(45) 1 B	1 A	2 A	(34) 3 B	(15) 3 A	(35) 0 B	(16) 0 A
0 A	(17) 1 A	(36) 1 B	(37) 0 B	(18) 3 A	(19) 3 B	(20) 2 A	2 B
(46) 3 B	(38) 2 B	(39) 0 A	1 A	0 B	(21) 2 A	(22) 1 B	(23) 3 A

		(1)		(2)		(3)					(4)				
0	D	0	C	1	D	1	B	0	B	1	C	0	A	1	A
(5)						(40)		(6)		(7)				(8)	
1	A	1	B	0	A	0	C	1	C	0	B	1	D	0	D
(9)				(10)		(11)		(12)							
1	D	1	C	0	D	0	B	1	B	0	C	1	A	0	A
(13)		(14)				(15)				(16)		(41)		(17)	
1	B	1	A	0	B	0	D	1	D	0	A	1	C	0	C
		(18)		(19)		(20)						(21)		(22)	
0	A	0	B	1	A	1	C	0	C	1	B	0	D	1	D
(23)						(24)		(25)		(26)		(42)		(27)	
0	C	0	D	1	C	1	A	0	A	1	D	0	B	1	B
(28)				(29)		(30)		(31)		(32)		(33)			
0	B	0	A	1	B	1	D	0	D	1	A	0	C	1	C
(34)		(35)		(36)				(37)		(38)		(39)			
1	C	1	D	0	C	0	A	1	A	0	D	1	B	0	B

0	A	1	B	0	B	(1)	1	A		
1	A	(2)	0	B	1	B	(3)	0	A	
(4)	0	B	(5)	1	A	0	A	(6)	1	B
1	B	0	A	(7)	1	A	0	B		

(1) 1	B	0	B	(2) 0	A	(3) 1	A
(4) 0	B	(5) 1	B	1	A	(6) 0	A
(7) 0	A	(8) 1	A	(9) 1	B	0	B
1	A	(10) 0	A	(11) 0	B	(12) 1	B

(15)	1	B	(16)	0	A	(1)	0	B	2	B	(17)	1	A	(18)	2	A	
(19)	1	A		1	B	(20)	2	A	(21)	0	A	(22)	0	B	(2)	2	B
(3)	2	A	(23)	0	B	(4)	0	A		1	A	(24)	2	B	(5)	1	B
(25)	0	B		1	A	(6)	2	B	(26)	1	B	(7)	2	A	(8)	0	A
	0	A	(9)	2	B		1	A	(10)	2	A	(11)	1	B		0	B
(27)	2	B	(12)	2	A		1	B	(13)	0	B		0	A	(14)	1	A

1	B	2	A	⁽¹⁶⁾ 3	A	0	A	⁽⁶⁵⁾ 0	B	⁽⁵⁷⁾ 3	⁽⁵⁸⁾ B	⁽¹⁾ 1	A	⁽⁵¹⁾ 2	⁽⁵²⁾ B
3	B	⁽¹⁷⁾ 0	A	⁽⁴⁰⁾ 1	A	⁽⁴¹⁾ 2	A	⁽⁵⁹⁾ 2	⁽⁶⁰⁾ B	⁽⁶¹⁾ 1	⁽⁶²⁾ B	3	A	0	B
⁽⁵³⁾ 3	⁽⁵⁴⁾ A	2	B	⁽³⁵⁾ 1	B	⁽⁴²⁾ 0	⁽⁴³⁾ B	0	A	⁽²⁾ 1	A	⁽³⁾ 3	⁽⁴⁾ B	2	A
⁽³⁰⁾ 0	A	⁽²⁴⁾ 1	⁽²⁵⁾ B	⁽³¹⁾ 0	⁽³²⁾ B	⁽³³⁾ 3	⁽³⁴⁾ B	1	A	⁽⁵⁾ 2	A	⁽⁶⁾ 2	⁽⁷⁾ B	⁽²⁶⁾ 3	A
⁽⁵⁵⁾ 0	B	3	A	⁽⁴⁴⁾ 0	A	⁽⁴⁵⁾ 1	A	⁽⁶³⁾ 3	B	⁽⁶⁴⁾ 2	B	⁽⁸⁾ 2	A	1	B
⁽²⁷⁾ 1	A	⁽¹⁸⁾ 0	⁽¹⁹⁾ B	⁽²⁰⁾ 3	B	⁽²⁸⁾ 2	⁽²⁹⁾ B	⁽⁹⁾ 2	A	3	A	1	B	⁽²¹⁾ 0	A
⁽⁴⁸⁾ 2	⁽⁴⁹⁾ B	⁽¹⁰⁾ 1	A	⁽³⁶⁾ 2	A	⁽³⁷⁾ 3	A	⁽⁵⁶⁾ 1	B	0	B	0	A	⁽⁵⁰⁾ 3	B
⁽²²⁾ 2	⁽²³⁾ A	⁽¹¹⁾ 3	B	⁽¹²⁾ 2	B	1	B	⁽¹³⁾ 3	A	0	A	0	B	⁽¹⁴⁾ 1	⁽¹⁵⁾ A

(70) 1	(71) A	0	B	2	(3) A	(57) 0	(58) A	(68) 3	(69) B	(5) 2	B	(45) 3	(46) A	(39) 1	(40) B
1	B	(1) 2	A	(6) 0	B	(20) 2	(21) B	3	A	(7) 0	(8) A	(22) 3	(23) B	1	A
(48) 2	A	(49) 3	B	(50) 3	A	(47) 1	A	(51) 2	(52) B	(42) 1	B	(43) 0	(44) A	(41) 0	B
(59) 2	B	(60) 1	A	(53) 1	B	(54) 3	B	(55) 2	(56) A	(61) 3	(62) A	(65) 0	(66) B	(63) 0	(64) A
0	A	(2) 1	B	(9) 1	(10) A	(12) 3	(13) A	(14) 0	(15) B	3	B	2	A	2	B
(72) 3	(73) B	0	A	2	(4) B	0	B	(67) 1	A	(74) 2	(75) A	(76) 1	(77) B	(37) 3	A
0	B	(31) 3	(32) A	(16) 3	(17) B	(24) 1	B	0	A	1	A	(25) 2	(33) B	(34) 2	(35) A
(28) 3	A	(29) 2	(30) B	(18) 0	(19) A	(26) 2	(27) A	(78) 1	(79) B	(80) 0	(81) B	1	A	3	B

(1) 0	A	(2) 1	(3) B	(4) 0	B	1	A
(5) 1	A	0	B	(16) 1	(17) B	(6) 0	A
(7) 1	(8) B	0	A	(9) 1	A	(10) 0	(11) B
0	B	(12) 1	A	(13) 0	A	(14) 1	(15) B

	(1)	(2)		(3)	(4)		
0	A	1	B	1	A	0	B
(16)	(17)	(9)				(5)	(6)
0	B	1	A	1	B	0	A
(18)	(19)	(20)	(21)	(10)	(11)	(7)	
1	A	0	B	0	A	1	B
(12)	(13)	(14)	(15)	(8)			
1	B	0	A	0	B	1	A

(1) 0	B	(2) 0	A	1	A	1	B
(3) 1	A	1	B	(4) 0	B	(5) 0	A
1	B	(6) 1	A	0	A	0	B
0	A	(7) 0	B	1	B	1	A

(1)	1	B	0	B	1	A	0	A
(2)	1	A	0	A	1	B	0	B
	0	B	1	B	0	A	1	A
(3)	0	A	1	A	0	B	1	B

0	B	(1) 1	B	0	A	1	A
0	A	1	A	0	B	1	B
1	B	0	B	(2) 1	A	(3) 0	A
1	A	0	A	1	B	0	B

(34) 2	(35) A	(21) 0	A	2	B	(36) 0	(37) B	(22) 1	(23) B	1	A
(1) 0	B	(2) 2	B	2	A	(3) 1	A	(4) 0	(5) A	1	B
0	A	(15) 1	A	1	B	2	B	(16) 0	(17) B	(9) 2	(10) A
(24) 1	A	(18) 2	A	(25) 0	(26) B	(27) 1	B	(28) 2	B	(11) 0	A
(29) 1	(30) B	(31) 0	B	(32) 1	(33) A	0	A	(12) 2	A	(13) 2	B
2	B	(19) 1	(20) B	(14) 0	A	(6) 2	A	(7) 1	A	(8) 0	B

1	A	1	D	1	C	0	C	1	B	⁽¹⁾ 0	D	0	B	⁽²⁾ 0	A
1	B	⁽³⁾ 1	C	1	D	⁽⁴⁾ 0	D	1	A	⁽⁵⁾ 0	C	0	A	⁽⁶⁾ 0	B
0	D	0	A	0	B	1	B	0	C	1	A	1	C	1	D
1	C	1	B	1	A	0	A	1	D	0	B	0	D	0	C
1	D	⁽⁷⁾ 1	A	⁽⁸⁾ 1	B	⁽⁹⁾ 0	B	1	C	0	A	⁽¹⁰⁾ 0	C	0	D
0	C	⁽¹¹⁾ 0	B	0	A	1	A	0	D	⁽¹²⁾ 1	B	1	D	1	C
0	A	0	D	0	C	1	C	0	B	1	D	1	B	1	A
0	B	0	C	0	D	1	D	⁽¹³⁾ 0	A	1	C	1	A	1	B

		(25)	(26)	(27)	(28)	(29)			(1)			(7)	(8)		
3	B	1	B	0	A	3	A	2	B	0	B	2	A	1	A
(15)		(9)	(10)									(2)		(3)	
2	A	0	A	3	B	0	B	3	A	1	A	1	B	2	B
(11)		(16)	(17)	(22)				(12)		(18)		(19)	(20)	(4)	
1	B	3	B	2	A	1	A	0	B	2	B	0	A	3	A
(34)		(32)		(38)	(39)	(35)	(36)	(33)				(37)			
3	A	1	A	2	B	3	B	0	A	2	A	0	B	1	B
(40)				(46)				(41)		(42)		(43)	(44)	(45)	
0	A	2	A	1	B	2	B	1	A	3	A	3	B	0	B
(5)		(13)		(23)		(24)		(6)							
0	B	2	B	3	A	2	A	3	B	1	B	1	A	0	A
		(30)	(31)	(47)	(48)	(52)	(53)	(49)	(50)	(51)				(54)	(55)
1	A	3	A	0	B	1	B	2	A	0	A	2	B	3	B
		(21)		(56)	(57)	(58)		(14)		(59)	(60)	(61)	(62)		
2	B	0	B	1	A	0	A	1	B	3	B	3	A	2	A

		(18)	(19)	(10)	(11)	(20)	(21)
0	B	1	A	1	B	0	A
(1)				(12)	(13)	(14)	(15)
1	B	0	A	0	B	1	A
(2)	(3)	(4)	(5)	(6)			
1	A	0	B	0	A	1	B
		(16)	(17)	(7)		(8)	(9)
0	A	1	B	1	A	0	B

(1)	1	D	1	C	1	A	0	A	(2)	1	B	(3)	0	B	0	C	(4)	0	D	
	0	B	(5)	0	A	0	C	(6)	1	C	(7)	0	D	(8)	1	D	1	A	1	B
	0	A	0	B	0	D	1	D	0	C		(9)	1	C	1	B	(10)	1	A	
(11)		1	C	(12)	1	D	(13)	1	B	0	B	(14)	1	A	0	A	0	D	0	C
	1	B	1	A	1	C	(15)	0	C	1	D	0	D	(16)	0	A	0	B		
(17)		0	C	(18)	0	D	(19)	0	B	(20)	1	B	0	A	1	A	1	D	1	C
(21)		1	A	(22)	1	B	1	D	(23)	0	D	1	C	0	C	0	B	(24)	0	A
	0	D	(25)	0	C	(26)	0	A	1	A	0	B	(27)	1	B	1	C	1	D	

0	A	1	A	0	B	1	B
0	B	(1) 1	B	(2) 0	A	1	A
1	B	(3) 0	B	1	A	0	A
1	A	0	A	1	B	0	B

(1) 1	B	1	A	(1) 0	B	(2) 0	A
0	B	0	A	1	B	(3) 1	A
0	A	(4) 0	B	1	A	1	B
(5) 1	A	(6) 1	B	(7) 0	A	0	B

(1) 1	A	(2) 1	(3) B	0	B	(4) 0	(5) A	2	B	2	A
0	A	(7) 2	B	(9) 1	(10) B	(8) 2	A	(31) 0	(32) B	(29) 1	(30) A
(21) 1	(22) B	(13) 0	A	(11) 1	(12) A	(26) 2	(27) B	2	A	(28) 0	B
(23) 2	(24) A	(6) 0	B	2	B	(36) 1	(37) A	(38) 1	(39) B	(33) 0	A
0	B	(16) 1	(17) A	(14) 2	(15) A	(34) 1	(35) B	(40) 0	(41) A	(42) 2	(43) B
(19) 2	(20) B	(18) 2	A	0	A	(25) 0	B	(44) 1	(45) A	1	B

		(43)		(1)		(2)		(3)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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(14)	0	B	0	A	1	A	(1)	2	A	(2)	1	B	2	B	
(15)	1	B	(16)	2	A	0	A	(3)	1	A	2	B	(4)	0	B
(5)	0	A	0	B	(6)	2	B	1	B	(7)	2	A	(8)	1	A
1	A	2	B	1	B	0	B	0	A	(9)	2	A			
2	B	(10)	1	A	2	A	(11)	0	A	0	B	1	B		
2	A	1	B	(12)	0	B	(13)	2	B	1	A	0	A		

(1) 0	A	1	A	0	B	(2) 1	B
(12) 1	B	(3) 0	B	(4) 1	A	0	A
(5) 0	B	1	B	(6) 0	A	(7) 1	A
(8) 1	A	(9) 0	A	(10) 1	B	(11) 0	B

(56) 0	(57) A	0	C	(54) 0	(55) D	(58) 0	(59) B	1	B	1	A	(30) 1	(31) D	(1) 1	C
(2) 0	D	(32) 0	(33) B	(50) 0	(51) A	(3) 0	C	(4) 1	C	1	D	(34) 1	(35) A	(19) 1	B
(73) 1	(74) A	(5) 1	C	(6) 1	D	(71) 1	(72) B	(68) 0	(69) B	(63) 0	(64) A	0	D	(7) 0	C
(65) 0	B	(36) 0	(37) D	(8) 0	C	(60) 0	A	(66) 1	A	(61) 1	(62) B	(9) 1	C	1	D
(38) 0	(39) C	(20) 0	(21) A	(10) 0	B	0	D	(11) 1	D	(22) 1	C	(12) 1	B	(13) 1	(14) A
(40) 1	(41) C	(15) 1	A	1	B	(16) 1	D	(42) 0	D	(23) 0	C	(24) 0	B	(25) 0	A
(75) 1	(76) B	(26) 1	(27) D	1	C	(70) 1	A	(77) 0	A	0	B	(44) 0	(45) C	(17) 0	D
(52) 1	(53) D	1	B	(46) 1	(47) A	1	C	(48) 0	(49) C	(28) 0	(29) D	0	A	(18) 0	B

(1) 0	B	2	A	(2) 1	A	1	B	(3) 2	B	(4) 0	A
2	B	(16) 0	A	(5) 2	A	0	B	1	B	(6) 1	A
(7) 1	B	(8) 1	A	0	A	2	B	0	B	2	A
(9) 0	A	1	B	2	B	2	A	(10) 1	A	(11) 0	B
1	A	(12) 0	B	1	B	0	A	(13) 2	A	(14) 2	B
2	A	2	B	(15) 0	B	1	A	0	A	1	B

(66) 1	(67) D	(78) 0	(79) D	(1) 1	A	(68) 0	(69) C	(2) 1	B	(70) 0	(71) A	(42) 1	(43) C	(3) 0	B
(44) 0	(45) C	(21) 1	(22) C	(23) 0	B	(24) 1	D	0	A	(25) 1	B	(4) 0	D	(5) 1	A
(72) 1	(73) A	(74) 0	(75) A	(26) 1	D	(46) 0	B	(76) 1	C	0	D	(48) 1	(49) B	(28) 0	(29) C
0	D	(30) 1	(31) D	0	A	(32) 1	C	0	B	(6) 1	A	0	C	(7) 1	B
(8) 0	B	1	B	0	C	1	A	(50) 0	(51) D	(34) 1	(35) C	(9) 0	A	(10) 1	(11) D
1	C	(12) 0	C	1	B	(52) 0	(53) D	(54) 1	(55) A	(56) 0	(57) B	(36) 1	(37) D	(13) 0	(14) A
0	A	(58) 1	(59) A	(38) 0	(39) D	(15) 1	B	(60) 0	(61) C	(62) 1	(63) D	0	B	1	C
(64) 1	(65) B	(16) 0	B	(17) 1	C	(18) 0	A	(19) 1	D	(40) 0	(41) C	(20) 1	A	0	D

2	B	(26)	2	A	(1)	1	B	0	A	3	B	1	A	(2)	0	B	(22)	3	A		
1	B	(27)	3	A		0	B	1	A	(3)	2	B	(23)	2	A	(4)	3	B	(24)	0	A
2	A	(5)	2	B		3	A	0	B	(25)	1	A		3	B	(6)	0	A		1	B
3	A	(7)	1	B		0	A	3	B		2	A		2	B		1	A	(8)	0	B
3	B		1	A	(9)	2	B	3	A		0	B		0	A	(10)	1	B	(11)	2	A
0	A		0	B	(12)	1	A	(13)	2	B	(14)	3	A	1	B		2	A		3	B
(15)	1	A	3	B	(16)	2	A	1	B	(17)	0	A	(18)	0	B		3	A		2	B
(19)	0	B	0	A		3	B	2	A		1	B	(20)	3	A	(21)	2	B		1	A

(1) 2	A	(2) 1	A	0	A	1	B	(17) 2	B	(18) 3	B	0	B	3	A
1	B	2	B	3	B	(19) 0	A	(20) 3	A	2	A	(21) 1	A	(3) 0	B
2	B	3	B	0	B	(4) 3	A	2	A	(5) 1	A	0	A	(6) 1	B
(7) 3	B	0	B	1	B	(22) 2	A	1	A	(27) 0	A	(23) 3	A	2	B
0	B	(8) 1	B	2	B	1	A	(24) 0	A	(25) 3	A	(26) 2	A	(9) 3	B
3	A	2	A	(10) 1	A	(11) 0	B	1	B	(12) 2	B	3	B	(13) 0	A
1	A	(14) 0	A	3	A	2	B	(15) 3	B	0	B	1	B	2	A
0	A	3	A	2	A	3	B	0	B	1	B	(16) 2	B	1	A

	(12)	(25)	(26)	(27)	(28)	(29)	(30)	(13)	(14)		
1	B	1	A	2	B	2	A	0	B	0	A
(5)		(31)	(32)	(33)	(34)	(35)	(36)			(15)	(16)
1	A	0	B	0	A	2	B	2	A	1	B
(1)		(6)	(7)			(2)					
0	A	1	B	2	A	0	B	1	A	2	B
(37)	(38)	(17)		(39)	(40)	(18)	(19)		(3)	(8)	
0	B	2	A	1	B	0	A	2	B	1	A
(41)	(42)	(20)		(43)	(44)			(21)	(22)	(9)	(10)
2	A	2	B	1	A	1	B	0	A	0	B
(45)	(46)	(11)		(47)	(48)			(23)	(24)	(4)	
2	B	0	A	0	B	1	A	1	B	2	A

(45) 1	(46) C	(47) 1	(48) B	(49) 1	(50) A	0	B	(1) 0	D	0	(21) C	(2) 0	A	(35) 1	(36) D
0	(74) D	0	A	(56) 0	(57) B	(3) 1	A	(22) 1	(23) C	(75) 1	(76) D	1	B	(58) 0	(59) C
(60) 0	(61) B	(62) 0	(63) C	(4) 0	D	1	C	1	A	(5) 1	B	1	D	(64) 0	(65) A
(51) 0	C	(66) 0	(67) B	(6) 0	A	(37) 1	(38) B	1	D	(68) 1	(69) C	1	A	(52) 0	(53) D
(7) 1	B	(39) 1	(40) C	(8) 1	D	(24) 0	(25) C	(9) 0	A	0	B	(10) 0	D	(26) 1	(27) A
(77) 1	(78) D	(11) 1	A	(41) 1	(42) B	(12) 0	A	0	C	(79) 0	(80) D	(28) 0	(29) B	(13) 1	C
0	A	(70) 0	(71) D	(54) 0	(55) C	(43) 1	(44) D	(30) 1	B	(72) 1	(73) A	(31) 1	(32) C	(14) 0	B
(15) 1	A	1	D	1	(16) C	(17) 0	D	(18) 0	B	(33) 0	(34) A	(19) 0	(20) C	1	B

				(1)		(2)		(3)			
1	A	0	B	2	A	0	A	2	B	1	B
(14)		(4)		(5)							
0	B	2	A	2	B	1	B	0	A	1	A
(15)						(6)					
1	B	1	A	0	B	2	B	2	A	0	A
(16)		(7)		(8)							
2	B	0	A	1	B	0	B	1	A	2	A
								(9)			
2	A	2	B	0	A	1	A	1	B	0	B
		(10)		(11)		(12)				(13)	
0	A	1	B	1	A	2	A	0	B	2	B

2	A	0	A	0	B	1	B	3	B	1	A	3	A	2	B				
1	A	3	A	(1)	1	B	(2)	2	B	0	B	(13)	0	A	(3)	2	A	3	B
0	B	2	B	2	A	(4)	1	A	(5)	3	A	1	B	3	B	0	A		
3	A	1	A	(6)	3	B	0	B	2	B	(7)	2	A	0	A	1	B		
3	B	1	B	3	A	2	A	(8)	0	A	0	B	(9)	2	B	1	A		
2	B	0	B	0	A	3	A	1	A	3	B	1	B	2	A				
0	A	2	A	2	B	(10)	3	B	1	B	3	A	1	A	(11)	0	B		
1	B	3	B	1	A	0	A	2	A	2	B	(12)	0	B	3	A			

0	(1) A	(42) 1	(43) A	2	B	2	A	(16) 0	(17) B	(44) 1	(45) B
(18) 1	(19) A	(20) 2	(21) A	(2) 1	B	0	A	(3) 2	B	0	B
0	B	(22) 2	(23) B	1	A	1	B	0	A	(24) 2	(25) A
(26) 1	(27) B	(46) 0	(47) B	0	A	(4) 2	B	(28) 2	(29) A	(30) 1	(31) A
(9) 2	A	(32) 0	(33) A	(10) 0	(11) B	(5) 1	(6) A	(12) 1	(13) B	(34) 2	(35) B
(36) 2	(37) B	(38) 1	(39) B	(7) 2	(8) A	0	B	(14) 1	(15) A	(40) 0	(41) A

1	B	0	B	0	A	1	A	(16)	2	B	(1)	2	A	(2)	3	B	(3)	3	A			
(17)	0	A	(36)	1	A	(37)	3	B	(38)	2	B	(18)	3	A	1	B	2	A	(19)	0	B	
(4)	3	A	0	A	(39)	0	B	(40)	(41)	3	B	2	A	(20)	2	B	(5)	1	A	(21)	1	B
(42)	3	B	2	B	(22)	2	A	(23)	3	A	(43)	0	B	(6)	0	A	(24)	1	B	(7)	1	A
(25)	0	B	(8)	3	B	(26)	1	A	(27)	2	A	1	B	3	A	2	B	(9)	0	A		
1	A	(44)	2	A	(28)	2	B	1	B	(29)	0	A	0	B	(30)	3	A	(10)	3	B		
(31)	2	A	(32)	3	A	(45)	1	B	(33)	0	B	1	A	(11)	3	B	(34)	0	A	2	B	
(46)	2	B	(12)	1	B	(13)	3	A	(14)	0	A	(35)	3	B	1	A	(15)	0	B	2	A	

(35) 1 B	(36) 0 B	(16) 3 A	2 B	(1) 1 A	(17) 3 B	(18) 2 A	0 A
(19) 3 B	(20) 2 B	(37) 1 A	(2) 0 B	3 A	1 B	(38) 0 A	2 A
(21) 0 B	(22) 3 B	(23) 0 A	(3) 1 B	2 A	(24) 2 B	(25) 3 A	1 A
3 A	(26) 0 A	(39) 1 B	(27) 2 A	3 B	(28) 1 A	(40) 2 B	(29) 0 B
(4) 1 A	2 A	(44) 3 B	(30) 0 A	1 B	(5) 3 A	(41) 0 B	2 B
(6) 2 A	(7) 3 A	2 B	1 A	(8) 0 B	0 A	(31) 3 B	(9) 1 B
2 B	(32) 1 B	2 A	3 B	(10) 0 A	(11) 0 B	(33) 1 A	(12) 3 A
0 A	(13) 1 A	(42) 0 B	(34) 3 A	(14) 2 B	(15) 2 A	(43) 1 B	3 B

		(12)	(13)	(1)						(14)	(15)
0	A	2	A	1	A	2	B	0	B	1	B
(32)		(16)		(33)	(34)					(35)	(36)
1	B	2	B	0	B	0	A	2	A	1	A
		(2)		(17)	(18)			(19)		(20)	
2	B	0	B	1	B	2	A	1	A	0	A
(3)		(4)	(5)			(37)	(38)			(21)	(22)
1	A	0	A	2	A	1	B	2	B	0	B
(23)	(24)			(25)	(26)	(6)		(7)		(27)	(28)
0	B	1	B	2	B	1	A	0	A	2	A
(8)		(9)		(10)		(29)		(11)		(30)	(31)
2	A	1	A	0	A	0	B	1	B	2	B

0	B	(28)	2	A	3	B	(24)	1	A	3	A	(1)	2	B	1	B	0	A				
0	A	2	B	1	A	3	B	(2)	1	B	2	A	(3)	3	A	0	B					
3	B	(25)	3	A	2	B	(22)	2	A	0	A	1	B	0	B	(4)	1	A				
(5)	2	A	0	B	3	A	1	B	(6)	3	B	(7)	0	A	(8)	1	A	2	B			
1	B	(26)	1	A	0	B	(27)	0	A	(23)	2	A	(9)	3	B	(10)	2	B	3	A		
3	A	3	B	(11)	0	A	(12)	0	B	2	B	1	A	2	A	(13)	1	B				
1	A	(14)	1	B	(15)	2	A	(16)	2	B	(17)	0	B	(18)	3	A	(19)	0	A	(20)	3	B
2	B	0	A	1	B	3	A	(21)	1	A	0	B	3	B	2	A						

1	D	(1)	1	B	0	D	0	C	1	C	0	B	(2)	1	A	0	A					
(3)	0	D	(4)	0	B	1	D	1	C	(5)	0	C	(6)	1	B	0	A	1	A			
1	C	1	A	(7)	0	C	0	D	1	D	(8)	0	A	1	B	0	B					
0	B	0	D	1	B	1	A	0	A	1	D	0	C	(9)	1	C						
(10)	0	A	(11)	0	C	1	A	1	B	0	B	1	C	(12)	0	D	1	D				
1	B	(13)	1	D	(14)	0	B	(15)	0	A	(16)	1	A	(17)	0	D	(18)	1	C	(19)	0	C
(20)	1	A	1	C	(21)	0	A	0	B	1	B	(22)	0	C	1	D	(23)	0	D			
0	C	0	A	1	C	(24)	1	D	(25)	0	D	(26)	1	A	0	B	1	B				

(6)		(21)	(22)	(19)	(20)	(23)	(24)	(8)	(9)	(12)		(13)	(17)	(18)	
2	A	0	A	3	A	1	B	3	B	1	A	0	B	2	B
		(25)		(27)	(28)	(29)	(30)		(1)	(26)		(14)			
3	A	1	A	0	A	0	B	2	B	2	A	3	B	1	B
(7)		(65)	(66)		(34)	(33)		(10)	(11)	(53)	(54)	(67)	(68)	(45)	(46)
1	A	3	A	2	A	2	B	0	B	0	A	1	B	3	B
(40)	(41)	(55)		(37)	(38)	(58)	(59)	(2)		(51)	(52)	(56)	(57)		
0	B	2	B	3	B	1	A	3	A	1	B	2	A	0	A
(39)				(36)		(47)	(48)			(49)	(50)		(42)	(43)	(44)
1	B	3	B	0	B	0	A	2	A	2	B	1	A	3	A
(60)	(61)	(64)			(35)	(71)		(3)		(62)	(63)	(69)	(70)	(72)	(73)
3	B	1	B	2	B	2	A	0	A	0	B	3	A	1	A
		(74)	(75)			(76)	(77)			(78)	(79)	(80)		(81)	
2	B	0	B	1	B	3	A	1	A	3	B	0	A	2	A
(4)						(31)	(32)			(5)		(15)	(16)	(82)	(83)
0	A	2	A	1	A	3	B	1	B	3	A	2	B	0	B

		(54)		(32)			(33)		(34)	(35)	(55)				
3	B	1	A	1	B	0	B	2	B	2	A	0	A	3	A
		(10)		(21)		(11)	(12)	(22)	(23)	(1)				(2)	
1	B	3	A	3	B	2	B	0	B	0	A	2	A	1	A
(3)		(56)				(4)		(57)	(58)			(59)		(36)	
2	B	2	A	0	B	3	B	1	B	3	A	1	A	0	A
(13)	(14)			(60)	(61)	(37)	(38)	(39)	(40)	(24)		(15)		(41)	(42)
2	A	2	B	0	A	1	A	3	A	1	B	3	B	0	B
		(43)	(44)	(25)				(16)						(45)	
3	A	1	B	1	A	2	A	0	A	0	B	2	B	3	B
				(46)		(26)	(27)	(62)	(63)	(47)	(48)	(5)		(49)	
1	A	3	B	3	A	0	A	2	A	2	B	0	B	1	B
(6)				(28)				(29)				(17)	(18)	(30)	(31)
0	B	0	A	2	B	1	B	3	B	1	A	3	A	2	A
(7)		(8)				(19)	(20)		(9)	(50)	(51)			(52)	(53)
0	A	0	B	2	A	3	A	1	A	3	B	1	B	2	B

(12) 1	(13) A	(1) 0	B	(2) 1	B	(14) 0	(15) A
1	B	(3) 0	(4) A	(20) 1	(21) A	(16) 0	(17) B
0	A	1	B	(18) 0	(19) B	(5) 1	A
(6) 0	(7) B	1	A	(8) 0	(9) A	(10) 1	(11) B

(1) 1	A	(2) 0	B	1	B	0	A
(8) 0	(9) B	(10) 1	A	(3) 0	A	1	B
(15) 0	(16) A	(11) 1	(12) B	(4) 0	B	(5) 1	A
(13) 1	(14) B	(6) 0	A	1	A	(7) 0	B

(41) 1	(42) 0	(43) A	1	A	0	D	(1) 0	(44) 1	(45) C	(2) 1	D	(35) 0	(36) B
(76) 0	(77) A	(46) 1	(47) B	(66) 0	(67) B	(3) 1	(48) C	(49) 1	(50) D	(4) 0	C	(51) 1	(52) A
(53) 1	(54) A	(27) 0	B	(18) 1	B	0	C	(37) 0	(38) D	(5) 1	D	(28) 1	C
(78) 1	(79) C	(19) 0	D	(68) 1	D	(20) 0	(21) A	(55) 0	(56) B	(57) 1	B	(6) 1	A
(70) 0	(71) B	(29) 1	A	(7) 0	A	(8) 1	D	(9) 1	C	(72) 0	C	(73) 0	D
(31) 0	(32) C	(10) 1	D	0	D	(22) 1	A	(23) 1	B	(11) 0	B	(12) 0	A
(74) 1	(75) D	(59) 0	C	(14) 1	C	(15) 0	B	(61) 0	A	(26) 1	A	1	B
(63) 0	D	(33) 1	C	(34) 0	C	(16) 1	B	(17) 1	A	(64) 0	A	(65) 0	B
												(39) 1	(40) D

(17)	0	A	(18)	2	A	(27)	0	B	(19)	1	A	(20)	1	B	(21)	2	B
	0	B	(1)	1	B	(2)	0	A		2	B		2	A	(3)	1	A
(22)	1	B	(4)	2	B	(5)	2	A		0	B	(23)	1	A	(6)	0	A
	2	A	(7)	1	A	(24)	1	B	(8)	0	A		2	B	(9)	0	B
(10)	1	A		0	A	(25)	2	B	(11)	2	A	(12)	0	B		1	B
(26)	2	B	(13)	0	B		1	A	(14)	1	B	(15)	0	A	(16)	2	A

(20) 1	(21) B	(12) 0	(13) B	(1) 1	A	(14) 0	(15) A
(16) 0	(17) A	(18) 1	(19) A	(2) 0	(3) B	1	B
(4) 0	(5) B	1	B	0	A	(6) 1	(7) A
1	A	(8) 0	A	(9) 1	B	(10) 0	(11) B

(1) 0 A	1 B	0 B	1 A
1 A	(2) 0 B	1 B	0 A
(3) 0 B	1 A	(4) 0 A	1 B
(5) 1 B	0 A	(6) 1 A	(7) 0 B

1	A	1	C	0	D	1	D	0	C	0	B	1	B	0	A			
1	C	(1)	1	A	(2)	0	B	(3)	0	A	(4)	0	D	(5)	1	D	0	C
1	D	1	B	0	A	1	A	0	B	0	C	1	C	0	D			
1	B	1	D	(6)	0	C	1	C	0	D	0	A	1	A	0	B		
(7)	0	A	(8)	0	C	1	D	(9)	0	D	1	C	1	B	0	B	1	A
0	C	0	A	1	B	0	B	1	A	1	D	0	D	1	C			
(10)	0	B	0	D	1	C	(11)	0	C	1	D	(12)	1	A	0	A	1	B
(13)	0	D	0	B	1	A	0	A	1	B	1	C	0	C	1	D		

(1)	0	B	(41)	1	C	1	D	(2)	1	B	(3)	0	C	(42)	1	A	(4)	0	D	(5)	0	A	
(6)	1	D	(7)	0	A	(8)	0	B	(9)	0	D	(10)	1	A	(11)	0	C		1	B	(12)	1	C
	1	C		0	B		0	A	(13)	0	C		1	B		0	D	(14)	1	A	(15)	1	D
	0	A	(43)	1	D		1	C		1	A	(16)	0	D	(17)	1	B	(18)	0	C		0	B
	1	B	(19)	0	C	(20)	0	D		0	B		1	C	(21)	0	A		1	D		1	A
(22)	0	C	(23)	1	B	(24)	1	A	(25)	1	C	(26)	0	B	(27)	1	D	(28)	0	A	(29)	0	D
(30)	1	A	(31)	0	D	(32)	0	C		0	A		1	D	(33)	0	B	(34)	1	C	(35)	1	B
	0	D		1	A	(36)	1	B	(37)	1	D	(38)	0	A		1	C	(39)	0	B	(40)	0	C

(43) 0	(44) B	(46) 1	(47) A	(67) 3	(68) B	2	B	(18) 1	B	(65) 0	(66) A	3	A	2	A
0	A	(50) 3	(51) B	1	A	(52) 2	(53) A	(19) 3	A	(54) 0	(55) B	(11) 1	(12) B	(6) 2	B
(39) 2	(40) A	(32) 1	(33) B	(59) 3	(60) A	(57) 0	(58) A	(21) 1	A	(61) 2	(62) B	(1) 3	B	0	B
(22) 3	B	(23) 2	(24) A	2	B	1	B	(16) 0	(17) B	1	A	0	A	(2) 3	(3) A
(37) 2	(38) B	(25) 3	A	(36) 1	B	(34) 0	(35) B	3	B	(26) 2	A	(8) 1	A	0	A
(41) 1	(42) A	2	B	(69) 2	(70) A	(56) 3	A	(27) 0	(28) A	(63) 3	(64) B	(9) 0	(10) B	(4) 1	B
3	A	(48) 0	(49) B	(71) 0	(72) A	(73) 1	(74) A	(15) 2	A	(75) 1	(76) B	(13) 2	(14) B	3	B
(45) 1	B	(29) 0	A	(77) 0	(78) B	(79) 3	(80) B	(30) 2	(31) B	(81) 3	(82) A	(7) 2	A	(5) 1	A

0	B	2	B	1	A	1	B	0	A	2	A	⁽¹⁾ 3	B	⁽²⁾ 3	A
2	A	⁽³⁾ 0	A	1	B	1	A	2	B	0	B	3	A	3	B
3	B	1	B	2	A	0	B	1	A	⁽⁴⁾ 3	A	2	B	0	A
1	A	3	A	2	B	⁽⁵⁾ 0	A	⁽⁶⁾ 3	B	1	B	⁽⁷⁾ 2	A	0	B
⁽⁸⁾ 3	A	⁽⁹⁾ 1	A	0	B	2	A	1	B	⁽¹⁰⁾ 3	B	0	A	2	B
1	B	3	B	0	A	2	B	⁽¹¹⁾ 3	A	1	A	0	B	2	A
2	B	⁽¹²⁾ 0	B	⁽¹³⁾ 3	A	3	B	2	A	0	A	1	B	⁽¹⁴⁾ 1	A
0	A	2	A	3	B	3	A	0	B	2	B	1	A	1	B

1	B	(1) 0	A	1	A	0	B
0	B	(2) 1	A	0	A	1	B
1	A	0	B	1	B	(3) 0	A
0	A	1	B	0	B	1	A

(1)	3	A	(2)	0	B	2	B	(22)	1	A	(3)	2	A	0	A	(4)	1	B	3	B			
(44)	2	B	(45)	3	A	(23)	1	A	0	B	(36)	3	B	(5)	1	B	2	A	(37)	0	A		
2	A	1	B	(6)	3	B	(24)	0	A	1	A	(7)	3	A	(8)	2	B	0	B				
(38)	3	B	(39)	2	A	(9)	0	A	1	B	(40)	0	B	2	B	1	A	(25)	3	A			
(41)	1	B	(42)	0	A	2	A	(26)	3	B	(27)	2	B	(10)	0	B	(28)	3	A	(43)	1	A	
1	A	2	B	(29)	0	B	(30)	3	A	(31)	0	A	(11)	2	A	(12)	3	B	(32)	1	B		
(13)	0	A	(33)	3	B	(14)	1	B	(34)	2	A	(15)	3	A	(16)	1	A	(17)	0	B	(18)	2	B
(35)	0	B	1	A	3	A	(19)	2	B	1	B	3	B	(20)	0	A	(21)	2	A				

(14) 0 A	(15) 2 A	(1) 1 A	1 B	(2) 2 B	(3) 0 B
1 A	0 A	2 A	0 B	(4) 1 B	2 B
(5) 2 A	(6) 1 A	0 A	2 B	0 B	1 B
2 B	(7) 0 B	1 B	(8) 0 A	2 A	1 A
(9) 1 B	2 B	0 B	(10) 1 A	(11) 0 A	2 A
0 B	1 B	(12) 2 B	2 A	1 A	(13) 0 A

(1) 0	B	1	B	1	A	(2) 0	A
(3) 1	B	(4) 0	B	(5) 0	A	(6) 1	A
(7) 0	A	(8) 1	A	(9) 1	B	(10) 0	B
1	A	(11) 0	A	0	B	1	B

(6)	2	A	(31)	2	B	(22)	(23)	0	B	(7)	3	A	3	B	(32)	(33)	1	B	(24)	(25)	0	A	1	A	
	0	B		0	A	(44)	(45)	2	A	(15)	3	B	(42)	(43)	3	A	1	A	(16)	(17)	2	B	(8)	1	B
(1)	1	B	(39)	(40)	3	A	1	A	(46)	(47)	(41)	0	B	2	A	0	A	(48)	(49)	(30)	3	B	2	B	
(2)	3	A	(36)	(37)	1	B	(26)	(27)	3	B	(3)	0	A	2	B	(34)	(35)	0	B	1	A	2	A		
(9)	1	A		3	B	1	B	(50)	(51)	(52)	(53)	2	A	0	B	(54)	(55)	2	B	(20)	3	A	(18)	0	A
	3	B	(56)	1	A	(57)	3	A	(10)	2	B	0	A	2	A	(58)	2	A	1	B	(4)	0	B		
(11)	(12)	2	B	2	A	(59)	0	A	1	B	(60)	(61)	1	A	3	A	(62)	(63)	(28)	(29)	0	B	(5)	3	B
	0	A	(38)	0	B		2	B	(21)	1	A	(64)	1	B	(65)	3	B	(19)	2	A	(13)	(14)	3	A	

1	B	(1) 0	A	(2) 0	C	1	A	0	D	1	D	0	B	(3) 1	C
1	D	(4) 0	C	(5) 0	A	1	C	0	B	1	B	0	D	1	A
0	B	1	A	1	C	0	A	1	D	0	D	(6) 1	B	0	C
1	C	0	D	0	B	1	D	0	A	1	A	0	C	1	B
0	C	1	D	1	B	(7) 0	D	1	A	0	A	1	C	0	B
(8) 1	A	0	B	(9) 0	D	1	B	(10) 0	C	1	C	0	A	1	D
0	D	1	C	1	A	0	C	1	B	0	B	(11) 1	D	0	A
0	A	1	B	1	D	0	B	(12) 1	C	0	C	1	A	0	D

(19) 0	A	(20) 0	B	(5) 2	B	(21) 2	(22) A	(1) 1	B	(23) 1	(24) A
0	B	0	A	(25) 1	(26) A	(34) 1	(35) B	(6) 2	(7) A	(36) 2	(37) B
(47) 2	(48) B	(38) 1	A	(27) 2	(28) A	(39) 0	(40) B	(8) 0	(9) A	(41) 1	(42) B
(10) 2	(11) A	(2) 1	B	0	B	(12) 1	(13) A	2	B	0	A
1	A	(14) 2	(15) B	(16) 1	B	(17) 0	(18) A	0	B	(3) 2	A
(43) 1	(44) B	(29) 2	(30) A	(31) 0	(32) A	(33) 2	B	(4) 1	A	(45) 0	(46) B

(1)	0	D	1	A	0	C	(2)	1	D	(3)	1	C	0	A	1	B	0	B				
(4)	1	B	(5)	0	C	1	A	0	B	0	A	(6)	1	C	(7)	0	D	1	D			
	1	D	(8)	0	A	1	C	(9)	0	D	0	C	(10)	1	A	(11)	0	B	1	B		
	0	B	1	C	0	A	1	B	1	A	(12)	0	C	(13)	1	D	0	D				
(14)	1	C	(15)	0	B	(16)	1	D	0	C	0	D	1	B	0	A	(17)	1	A			
	1	A	(18)	0	D	1	B	0	A	0	B	1	D	(26)	0	C	(19)	1	C			
(20)	0	A		1	D	0	B	(21)	1	A	(22)	1	B	0	D	(23)	1	C	0	C		
	0	C	(24)	1	B	0	D	(25)	1	C	1	D	0	B	1	A	0	A				

(23) 2	(24) A	0	A	(10) 2	B	(25) 3	(26) A	(1) 1	B	(11) 3	(12) B	0	B	(27) 1	(28) A
(29) 1	(30) A	(31) 3	(32) A	(6) 3	(7) B	(33) 2	(34) A	2	B	(8) 0	(9) B	1	B	(35) 0	(36) A
(42) 1	(43) B	(54) 3	B	3	A	(48) 0	(49) B	(58) 0	A	(4) 2	A	(56) 1	(57) A	(55) 2	B
(40) 0	(41) B	(62) 2	(63) B	(5) 0	A	(46) 3	(47) B	(60) 1	(61) A	3	A	(59) 2	A	1	(37) B
2	B	(64) 0	(65) B	(2) 2	A	(50) 1	(51) B	(66) 3	(67) A	(3) 1	A	0	A	(68) 3	(69) B
(38) 3	(39) B	1	B	1	A	(44) 2	(45) B	(70) 2	(71) A	0	A	(72) 3	(73) A	0	B
3	(20) A	(74) 1	(75) A	(13) 1	(14) B	0	A	(76) 0	(77) B	(15) 2	(16) B	(17) 3	B	(52) 2	(53) A
(21) 0	(22) A	2	A	0	B	1	A	3	B	(18) 1	(19) B	(78) 2	(79) B	(80) 3	(81) A

(1) 0	A	1	A	(2) 0	(3) B	1	B
(13) 0	B	(4) 1	B	(14) 0	(15) A	(16) 1	(17) A
(5) 1	A	(6) 0	A	(7) 1	(8) B	(9) 0	B
(10) 1	(11) B	0	B	(12) 1	A	0	A

(1) 2 A	2 B	(1) 1 B	0 A	(2) 0 B	1 A
1 B	(3) 1 A	2 A	(4) 0 B	0 A	2 B
1 A	0 B	2 B	(5) 2 A	1 B	0 A
0 B	2 A	0 A	2 B	1 A	1 B
(6) 2 B	0 A	1 A	1 B	2 A	0 B
0 A	1 B	0 B	(7) 1 A	2 B	(8) 2 A

1	A	0	A	1	B	0	B	2	B	2	A
(1)		(2)									
2	B	0	B	2	A	0	A	1	A	1	B
		(3)		(4)							
0	A	2	A	2	B	1	B	0	B	1	A
(5)		(6)									
1	B	2	B	0	A	1	A	2	A	0	B
						(7)					
0	B	1	B	1	A	2	A	0	A	2	B
										(8)	
2	A	1	A	0	B	2	B	1	B	0	A

2	A	0	B	1	A	(21) 3	A	2	B	(1) 1	B	3	B	(22) 0	A
0	B	2	A	1	B	3	B	0	A	(2) 1	A	3	A	2	B
(3) 3	B	(4) 3	A	0	B	(5) 2	B	(23) 1	A	(6) 2	A	0	A	1	B
(7) 0	A	(8) 2	B	(9) 3	A	1	A	0	B	3	B	(10) 1	B	2	A
3	A	3	B	(11) 2	A	(12) 0	A	1	B	0	B	2	B	(13) 1	A
2	B	0	A	(14) 3	B	1	B	(24) 2	A	3	A	(25) 1	A	(15) 0	B
1	B	1	A	2	B	0	B	(26) 3	A	0	A	(16) 2	A	3	B
(17) 1	A	1	B	0	A	2	A	(18) 3	B	(19) 2	B	0	B	(20) 3	A

		(1)						(2)			
0	A	0	B	1	A	1	B	2	B	2	A
		(3)									
2	A	1	B	0	A	2	B	0	B	1	A
						(4)				(5)	
0	B	0	A	2	B	2	A	1	A	1	B
1	A	2	B	2	A	0	B	1	B	0	A
(6)						(7)					
1	B	2	A	0	B	1	A	0	A	2	B
						(8)					
2	B	1	A	1	B	0	A	2	A	0	B

(21)	0	A	(1)	1	A		0	B	(2)	1	B	(3)	2	B		2	A	
(22)	2	A		0	A	(4)	1	B		2	B	(5)	0	B		(6)	1	A
(7)	2	B		1	B		1	A	(23)	0	A	(24)	2	A			0	B
(25)	0	B	(8)	2	B		0	A	(9)	2	A		1	A		(10)	1	B
(11)	1	B		0	B	(12)	2	A	(26)	1	A	(13)	0	A		(14)	2	B
(27)	1	A	(15)	2	A	(16)	2	B	(17)	0	B	(18)	1	B		(19)	0	A

0	A	(1) 1	A	2	B	2	A	0	B	3	B	(2) 1	B	3	A
(3) 2	A	3	A	0	B	0	A	(4) 2	B	1	B	3	B	1	A
1	A	2	A	1	B	3	A	3	B	2	B	(5) 0	B	0	A
3	A	0	A	(6) 3	B	1	A	1	B	0	B	2	B	2	A
(7) 2	B	1	B	0	A	0	B	2	A	(8) 3	A	1	A	3	B
(9) 0	B	3	B	2	A	2	B	0	A	1	A	3	A	1	B
1	B	0	B	1	A	(10) 3	B	3	A	0	A	2	A	(11) 2	B
3	B	2	B	(12) 3	A	1	B	1	A	2	A	0	A	(13) 0	B

0	B	1	A	1	B	1	D	0	D	0	C	1	C	0	A			
1	B	0	A	0	B	(1)	0	D	1	D	1	C	(2)	0	C	1	A	
(3)	1	C	0	D	0	C	0	A	1	A	1	B	0	B	1	D		
0	D	1	C	1	D	1	B	0	B	0	A	1	A	0	C			
0	A	1	B	(4)	1	A	1	C	(5)	0	C	(6)	0	D	1	D	0	B
(7)	1	D	0	C	0	D	0	B	1	B	1	A	(8)	0	A	1	C	
0	C	1	D	1	C	1	A	0	A	(9)	0	B	(10)	1	B	(11)	0	D
(12)	1	A	(13)	0	B	0	A	0	C	1	C	1	D	0	D	1	B	

(30) 2	(31) A	(1) 0		(32) 1	(33) B			(14) 1		(15) 0	
(16) 0		(17) 1	(18) A	(19) 0		(20) 2	(21) A	(2) 1		(3) 2	
(34) 0	(35) A	(4) 2		(36) 0		(37) 1	(38) B			(22) 1	
(23) 2	(24) B	(5) 2	(6) A			(7) 0				(8) 1	
(25) 1	(26) B			(9) 2		(27) 1	(28) A				
				(29) 2		(10) 0		(11) 0		(12) 2	(13) A

(37)	1	A	(1)	0	A	(2)	1	B	(59)	(60)	(38)	1	D	1	C	(3)	0	C	(4)	0	B	0	D							
(5)	0	A		1	A		0	B	(39)	(40)	(6)	0	D	0	C		1	C	(7)		1	B	(8)	1	D					
(9)		0	C	(10)		1	C	(41)	(42)	(11)		0	D	0	B	(12)		0	A	(13)		1	A	(14)	(15)	(16)		1	B	
(61)		1	B	(43)	(44)	0	B	(17)		1	A	(45)	(46)	1	C	(18)		1	D		0	D	(47)	(48)	0	A	(19)		0	C
(49)	(50)	0	D	(20)		1	D	(51)	(52)	0	C		0	A	0	B	(21)		1	B		1	C	(22)		1	A			
	1	C		(23)		0	C	(24)		1	D		1	B	1	A	(25)		0	A		0	D	(26)	(27)		0	B		
(53)	(54)	0	B		1	B		0	A	(28)		0	C	(29)		0	D	(30)		1	D	(31)		1	A		1	C		
(32)		1	D		0	D		(55)	(56)	(33)		1	A	(34)		1	B	(35)		0	B	(57)	(58)	(36)		0	A			

(40)	0	A	0	C	(1)	0	D	(2)	1	C	(3)	0	B	1	B	(4)	1	D	(5)	1	A
(41)	(42)	(7)		(8)				(9)	(10)					1	A	1	C	1	B		
(11)		(12)												(13)		(14)		(15)	(16)		
0	D	0	B	0	A	1	B	0	C	1	C	1	A	1	D						
1	D	(17)		(18)		(19)		(20)	(21)	(22)		(23)		(24)							
1	B	1	A	0	B	1	C	0	C	0	A	0	D								
(43)		(44)	(45)	(46)				(47)	(48)	(49)		(50)	(51)	(25)							
1	C	1	A	1	B	0	A	1	D	0	D	0	B	0	C						
(26)		(52)	(53)	(27)		(28)				(54)	(55)										
0	C	0	A	0	B	1	A	0	D	1	D	1	B	1	C						
(56)		(29)		(57)	(58)	(30)		(31)		(59)	(60)	(32)		(33)							
1	B	1	D	1	C	0	D	1	A	0	A	0	C	0	B						
(61)	(62)	(34)				(35)	(36)	(37)		(38)		(39)									
1	A	1	C	1	D	0	C	1	B	0	B	0	D	0	A						

		(35)	(36)	(37)		(1)		(2)		(38)	(39)	(3)		(4)	
1	B	1	C	1	A	1	D	0	D	0	C	0	B	0	A
(5)		(6)		(7)		(8)		(9)		(40)	(41)			(10)	(11)
0	D	0	A	0	C	0	B	1	B	1	A	1	D	1	C
(42)	(43)	(12)				(44)		(13)		(14)		(45)		(15)	
0	C	0	B	0	D	0	A	1	A	1	B	1	C	1	D
(16)				(46)	(47)			(17)		(18)		(48)	(49)		
0	B	0	C	0	A	0	D	1	D	1	C	1	B	1	A
				(50)	(51)	(52)	(53)			(19)		(54)	(55)	(20)	
1	C	1	B	1	D	1	A	0	A	0	B	0	C	0	D
		(21)				(56)	(57)	(58)	(59)	(22)		(23)		(24)	
1	A	1	D	1	B	1	C	0	C	0	D	0	A	0	B
(25)								(26)		(27)		(28)		(29)	
1	D	1	A	1	C	1	B	0	B	0	A	0	D	0	C
(30)				(31)		(32)				(33)		(60)	(61)	(34)	
0	A	0	D	0	B	0	C	1	C	1	D	1	A	1	B

			(1)					(14)	(15)	(11)	(12)	(18)	(19)	(16)	(17)
3	A	2	A	0	B	1	A	2	B	3	B	0	A	1	B
		(30)	(31)	(32)	(33)	(38)		(21)				(39)	(40)	(41)	(42)
1	A	0	A	2	B	3	A	0	B	1	B	2	A	3	B
(5)	(6)	(43)	(44)	(2)		(55)	(56)					(63)	(64)	(61)	(62)
0	A	3	A	3	B	2	A	1	B	2	B	1	A	0	B
(7)	(8)				(3)	(54)		(67)	(68)	(69)		(57)		(65)	(66)
2	B	3	B	3	A	0	B	1	A	0	A	1	B	2	A
				(24)		(27)	(28)	(20)		(13)		(25)	(26)	(22)	(23)
2	A	1	A	1	B	0	A	3	B	0	B	3	A	2	B
(4)				(36)	(37)			(70)	(71)	(72)	(73)	(74)	(75)		
1	B	2	B	0	A	3	B	2	A	1	A	0	B	3	A
		(45)	(46)			(47)		(76)	(77)	(78)	(79)	(48)	(49)		
0	B	1	B	1	A	2	B	3	A	2	A	3	B	0	A
(9)	(10)	(50)	(51)	(34)	(35)	(52)	(53)		(29)	(80)	(81)	(58)		(59)	(60)
3	B	0	B	2	A	1	B	0	A	3	A	2	B	1	A

0	B	(1)	A	(2)	A	(3)	B	1	B	(4)	A	3	A	2	B
1	A	(26)	B	(27)	B	2	A	0	A	(5)	B	0	B	(6)	A
3	A	0	B	(7)	B	0	A	2	A	3	B	(8)	B	(9)	A
(10)	B	2	A	(11)	A	(12)	B	0	B	(13)	A	0	A	1	B
2	B	(14)	A	2	A	1	B	3	B	0	A	1	A	(15)	B
1	B	0	A	3	A	(16)	B	2	B	(17)	A	(18)	A	3	B
(19)	A	(20)	B	(21)	B	(22)	A	3	A	2	B	(23)	B	2	A
(24)	A	1	B	2	B	3	A	1	A	0	B	3	B	(25)	A

(1) 1	B	(2) 1	A	0	A	0	B
0	A	0	B	1	B	1	A
1	A	1	B	0	B	0	A
0	B	0	A	1	A	(3) 1	B

(1) 1	B	(2) 0	A	0	B	(3) 1	A
(4) 1	A	(5) 0	B	0	A	(6) 1	B
0	A	1	B	1	A	(7) 0	B
0	B	1	A	1	B	0	A

(1)	1	B	(2)	1	D	0	C	0	D	0	B	1	A	0	A	(3)	1	C
(4)	1	A	1	C	0	D	0	C	0	A	1	B	0	B		(5)	1	D
	0	A	0	C	1	D	1	C	(6)	1	A	0	B	1	B		0	D
(7)	1	D	(8)	1	B	0	A	0	B	0	D	1	C	0	C		1	A
	0	D	0	B	1	A	1	B	1	D	0	C	1	C		0	A	
(9)	1	C	1	A	0	B	0	A	0	C	(10)	1	D	0	D		1	B
(11)	0	B	0	D	1	C	1	D	1	B		0	A	1	A	(12)	0	C
	0	C	0	A	1	B	1	A	1	C	(13)	0	D	1	D		0	B

3	B	(1)	1	A	0	B	1	B	3	A	(2)	2	A	0	A	(3)	2	B	
1	B	3	A	2	B	3	B	1	A	0	A	2	A	0	B				
1	A	3	B	(4)	0	A	3	A	1	B	(13)	2	B	(5)	0	B	(6)	2	A
3	A	1	B	2	A	1	A	(7)	3	B	(8)	0	B	2	B	0	A		
2	A	2	B	1	A	0	A	0	B	(9)	1	B	3	B	3	A			
0	B	0	A	1	B	2	B	2	A	1	A	3	A	(10)	3	B			
0	A	0	B	3	A	2	A	2	B	3	B	1	B	1	A				
(11)	2	B	2	A	3	B	(12)	0	B	0	A	3	A	1	A	1	B		

(23)	2	B	(24)	2	A	0	B	(42)	0	A	(1)	3	B	(25)	3	A	1	A	(26)	1	B		
(27)	3	B	(28)	1	A	(29)	1	B	(43)	3	A	(2)	0	B	(30)	2	A	(31)	0	A	(32)	2	B
	1	B		3	A	(3)	3	B	(33)	1	A		2	B	(4)	0	A		2	A	(5)	0	B
(6)	3	A	(44)	1	B	(7)	1	A	(34)	3	B		2	A	(35)	0	B	(36)	2	B		0	A
	1	A		3	B	(37)	3	A	(8)	1	B	(9)	0	A		2	B		0	B	(38)	2	A
	0	A		0	B	(10)	2	A	(11)	2	B		3	A		3	B	(12)	1	B	(13)	1	A
(14)	2	A	(39)	2	B	(40)	0	A	(15)	0	B	(16)	1	A	(17)	1	B		3	B	(18)	3	A
(41)	0	B	(19)	0	A	(20)	2	B		2	A		1	B		1	A	(21)	3	A	(22)	3	B

2	A	0	B	2	B	1	A	⁽¹⁾ 1	B	0	A
1	B	⁽²⁾ 0	A	1	A	⁽³⁾ 2	B	2	A	0	B
⁽⁴⁾ 1	A	1	B	⁽⁵⁾ 0	B	0	A	2	B	⁽⁶⁾ 2	A
⁽⁷⁾ 0	B	⁽⁸⁾ 1	A	2	A	1	B	⁽⁹⁾ 0	A	⁽¹⁰⁾ 2	B
2	B	2	A	⁽¹¹⁾ 0	A	⁽¹²⁾ 0	B	1	A	1	B
⁽¹³⁾ 0	A	2	B	⁽¹⁴⁾ 1	B	⁽¹⁵⁾ 2	A	0	B	1	A

2	B	3	A	0	B	0	A	1	A	3	B	⁽¹⁾ 2	A	1	B
⁽²⁾ 0	A	3	B	⁽³⁾ 2	A	2	B	1	B	⁽⁴⁾ 3	A	⁽⁵⁾ 0	B	1	A
3	B	2	A	1	B	3	A	0	A	⁽⁶⁾ 0	B	1	A	⁽⁷⁾ 2	B
3	A	0	B	1	A	3	B	2	B	2	A	1	B	0	A
0	B	⁽⁸⁾ 1	A	2	B	⁽⁹⁾ 2	A	3	A	1	B	0	A	3	B
1	A	2	B	3	A	1	B	0	B	0	A	⁽¹⁰⁾ 3	B	⁽¹¹⁾ 2	A
1	B	⁽¹²⁾ 0	A	3	B	1	A	2	A	2	B	3	A	0	B
2	A	1	B	0	A	0	B	3	B	1	A	2	B	⁽¹³⁾ 3	A

(1)	2	A	(2)	1	B	0	B	1	A	2	B	0	A		
	2	B	(3)	1	A	2	A	0	B	0	A	1	B		
(4)	0	B		0	A	1	A	1	B	2	A	(5)	2	B	
	1	A	(6)	2	B	1	B	(7)	0	A	0	B	2	A	
	1	B		2	A	0	A		2	B	1	A	(8)	0	B
	0	A		0	B	2	B		2	A	1	B		1	A

(39) 1	(40) A	(1) 1	B	(2) 0	B	0	D	(3) 1	C	(41) 1	(42) D	0	A	0	C
(43) 0	(44) A	0	B	(4) 1	B	(5) 1	D	(6) 0	C	(7) 0	D	(8) 1	A	(9) 1	C
0	D	(60) 0	(61) C	(45) 1	(46) C	1	A	(10) 0	B	(47) 0	(48) A	(11) 1	D	1	B
(49) 1	C	1	D	(50) 0	(51) D	0	B	(12) 1	A	(52) 1	(53) B	(54) 0	(55) C	(56) 0	(57) A
(58) 0	B	(59) 0	A	(13) 1	A	(14) 1	C	(15) 0	D	(16) 0	C	(17) 1	B	1	D
(18) 0	C	(19) 0	D	(20) 1	D	(21) 1	B	0	A	(22) 0	B	1	C	(23) 1	(24) A
(25) 1	B	(26) 1	A	0	A	0	C	(27) 1	D	(28) 1	C	0	B	(29) 0	D
(30) 1	D	(31) 1	C	0	C	(32) 0	(33) A	(34) 1	B	(35) 1	A	(36) 0	D	(37) 0	(38) B

(18) 0	(19) B	(20) 1	(21) A			(8) 1	(9) B
(10) 0	(11) A	(12) 1	(13) B	(1) 0	(2) B	1	A
(14) 1	A	(15) 0	(16) B	1	B	(3) 0	A
1	B	(17) 0	A	(4) 1	(5) A	(6) 0	(7) B

(0) A	(21) 2 A	(22) 1 B	(23) 0 B	(1) 1 A	(2) 2 B
(24) 2 B	(25) 0 B	(3) 0 A	(4) 1 A	(5) 1 B	2 A
(26) 0 B	(6) 1 B	(7) 2 A	(8) 0 A	2 B	(28) 1 A
(30) 1 B	(31) 2 B	1 A	(9) 2 A	(10) 0 B	(11) 0 A
(13) 1 A	(33) 0 A	(35) 0 B	(14) 2 B	2 A	1 B
(16) 2 A	(37) 1 A	(38) 2 B	(17) 1 B	(18) 0 A	(20) 0 B

(53)	0	C	0	D	0	A	(22)	(23)	(1)		(24)	(25)	(2)														
	0		0		0		1	D	1	A	1	C	1	B	0	B											
(3)		(4)		(76)	(77)		(54)	(55)		(56)			(5)		(26)	(27)											
	0	A	0	B	0	C	1	B	1	C	1	A	1	D	0	D											
(6)		(28)	(29)				(7)		(57)	(58)	(30)	(31)	(8)	(9)	(10)												
	0	B	0	A	0	D	1	A	1	D	1	B	1	C	0	C											
(32)	(33)	(11)		(59)	(60)		(61)	(62)	(63)	(64)			(34)	(35)	(12)												
	1	C	1	D	1	A	0	D	0	A	0	C	0	B	1	B											
		(36)	(37)	(65)	(66)				(38)	(39)	(13)		(14)		(15)	(16)											
	0	D	0	C	0	B	1	C	1	B	1	D	1	A	0	A											
		(40)	(41)	(67)	(68)				(69)		(70)	(71)			(17)												
	1	B	1	A	1	D	0	A	0	D	0	B	0	C	1	C											
(42)	(43)	(44)		(72)	(73)	(18)					(45)	(46)			(47)	(48)											
	1	D	1	C	1	B	0	C	0	B	0	D	0	A	1	A											
(19)				(78)	(79)	(49)	(50)	(74)	(75)	(51)	(52)				(20)	(21)											
	1	A	1	B	1	C	0	B	0	C	0	A	0	D	1	D											

(1) 0	B	(16) 0	A	(2) 1	B	(3) 1	A
1	B	(4) 1	(5) A	(6) 0	B	0	A
(7) 1	(8) A	(9) 1	B	(10) 0	A	(11) 0	(12) B
0	A	0	B	(13) 1	A	(14) 1	(15) B

(1)	0	D	0	C	(2)	0	A	1	A	(3)	0	B	(4)	1	B	1	D	1	C		
(5)	0	B	0	A		(6)	0	C	1	C	0	D	1	D	1	B	(7)	1	A		
	1	A	(8)	1	B	(9)	1	D	0	D	(10)	1	C	0	C	0	A	0	B		
(11)	0	C	(12)	0	D	(13)	0	B	1	B	(14)	0	A	(15)	1	A	1	C	(16)	1	D
	1	C	1	D	1	B	(17)	0	B	1	A	0	A	0	C	0	D				
(18)	1	B	(19)	1	A	(20)	1	C	(21)	0	C	(22)	1	D	(23)	0	D	0	B	0	A
	1	D	1	C	1	A	0	A	1	B	0	B	0	D	0	C					
(24)	0	A	(25)	0	B	(26)	0	D	1	D	0	C	1	C	1	A	1	B			

(1)	0	D	(55)	1	D	(56)	1	B	(2)	1	A	(3)	0	B	(57)	0	C	(38)	0	A	(4)	1	C	(5)	
	0	A	(6)	1	A	(59)	1	C	(7)	1	D	(39)	0	C	(40)	0	B	(8)	0	D		1	B		
	1	D	(41)	0	D	(42)	0	B		0	A	(9)	1	B	(10)	1	C	(11)	1	A		0	C		
(12)	1	B	(13)	0	B	(43)	0	D	(44)	0	C	(14)	1	D	(45)	1	A	(15)	1	C	(16)	0	A	(17)	
	1	C	(46)	0	C	(47)	0	A	(18)	0	B	(19)	1	A	(20)	1	D	(21)	1	B		0	D		
(22)	1	A	(23)	0	A	(48)	0	C	(49)	0	D	(50)	1	C	(24)	1	B	(25)	1	D	(26)	0	B		
	0	B	(27)	1	B	(52)	1	D		1	C	(28)	0	D	(29)	0	A	(30)	0	C		1	A		
(31)	0	C	(32)	1	C		1	A	(33)	1	B	(53)	0	A	(54)	0	D	(34)	0	B	(35)	1	D	(36)	(37)

(16)	0	B	1	A	1	B	(1)	2	B	(2)	0	A	(3)	2	A		
(27)	1	A	(17)	1	B	(18)	0	A	(19)	2	A	(20)	2	B	(21)	0	B
(22)	2	A	0	B	(4)	1	A	0	A	(23)	1	B	(5)	2	B		
(24)	0	A	(6)	2	B	2	A	(7)	1	A	(8)	0	B	1	B		
(25)	1	B	(9)	0	A	(10)	2	B	0	B	2	A	(11)	1	A		
(26)	2	B	2	A	(12)	0	B	(13)	1	B	(14)	1	A	(15)	0	A	

(28) 0	(29) A	(20) 1	(21) B	(9) 2	(10) 1	(11) A	(1) 0	(2) B	(3) 2	(4) A
(46) 1	(47) A	(38) 0	(39) B	(22) 1	(23) B	(2) 2	(3) 2	(4) B	(5) 0	(6) A
(40) 1	(41) B	(30) 1	(31) A	(32) 0	(33) A	(12) 0	(13) 2	(14) A	(15) 2	(16) B
(42) 0	(43) B	(44) 2	(45) A	(34) 1	(35) A	(14) 2	(15) B	(16) 0	(17) A	(18) 1
(7) 2	(8) A	(36) 0	(37) A	(26) 1	(27) B	(4) 1	(5) 1	(6) A	(7) 0	(8) B
(36) 2	(37) B	(26) 0	(27) B	(8) 0	(9) A	(10) 1	(11) B	(12) 1	(13) A	(14) A