

Гетероассоциативная память

Даны четыре образца закодированные 1 (закрашенный квадрат) и -1 (пустой квадрат) слева направо, сверху вниз, ассоциированные с биполярной формой номера. Найти десятичную форму ассоциации образца y после первого цикла обработки данных. Использовать функцию $\text{sgn}(x) = 1$, при $x > 0$, $\text{sgn}(x) = -1$, при $x \leq 0$.

Задача 8.1. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.2. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.3. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.4. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.5. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.6. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.7. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.8. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.9. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.10. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.11. 1

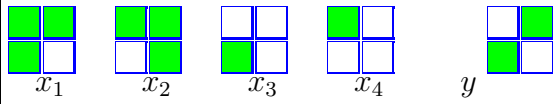
<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: white;"></td></tr></table>					x_1	x_2	x_3	x_4	y

Задача 8.12. 1

<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: green;"></td><td style="background-color: white;"></td></tr></table>					<table border="1" style="border-collapse: collapse; width: 20px; height: 20px;"><tr><td style="background-color: green;"></td><td style="background-color: green;"></td></tr><tr><td style="background-color: white;"></td><td style="background-color: green;"></td></tr></table>					x_1	x_2	x_3	x_4	y

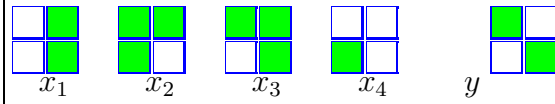
Задача 8.13.

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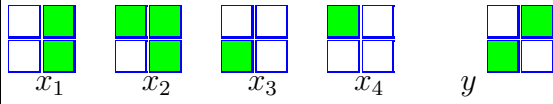
Задача 8.14.

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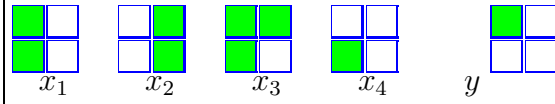
Задача 8.15.

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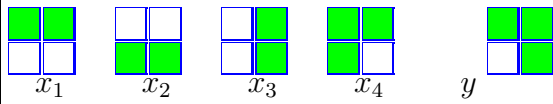
Задача 8.16.

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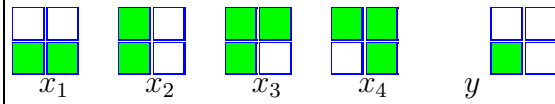
Задача 8.17.

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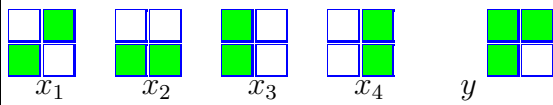
Задача 8.18.

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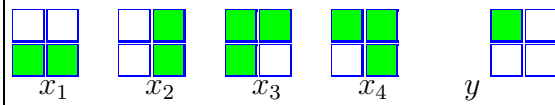
Задача 8.19.

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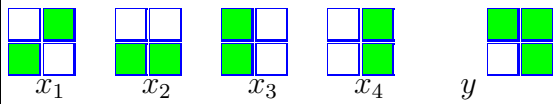
Задача 8.20.

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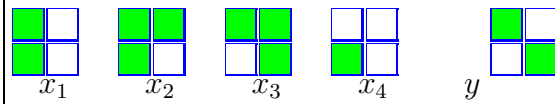
Задача 8.21.

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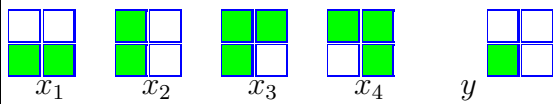
Задача 8.22.

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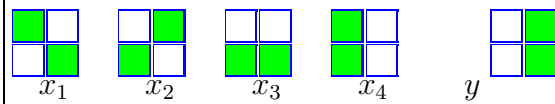
Задача 8.23.

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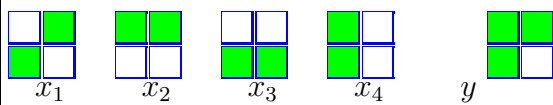
Задача 8.24.

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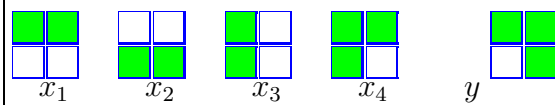
Задача 8.25.

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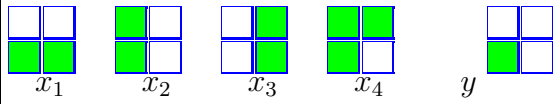
Задача 8.26.

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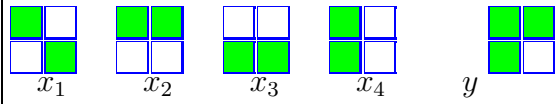
Задача 8.27.

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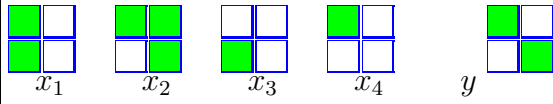
Задача 8.28.

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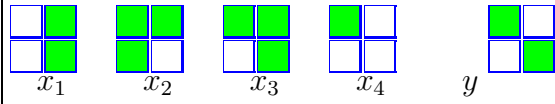
Задача 8.29.

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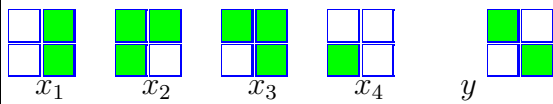
Задача 8.30.

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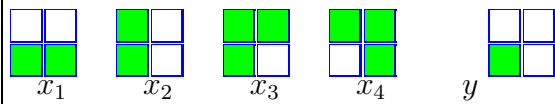
Задача 8.31.

1



Задача 8.32.

1



Гетероассоциативная память

№	
1	3
2	1
3	3
4	3
5	4
6	4
7	1
8	5
9	1
10	3
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