

С# Стартовый

ПРОЦЕДУРНОЕ ПРОГРАММИРОВАНИЕ НА ЯЗЫКЕ С#

Системы счисления



Introduction



Александр Шевчук



OLEKSANDR SHEVCHUK

Has successfully completed the requirements to be recognized as a Trainer.



MCID: 9230440



Тема урока

Системы счисления



Системы счисления

«Позиционная»

Арабская

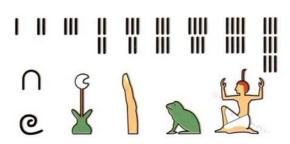
0, 1, 2, 3, 4, 5, 6, 7, 8, 9

«Непозиционная»

Римская

1	II	III	IV	V	VI
VII	VIII	IX	X	XI	XII
I	II	III	ΙV	V	٧I
VII	VIII	ΙX	X	XI	XII

Египетская



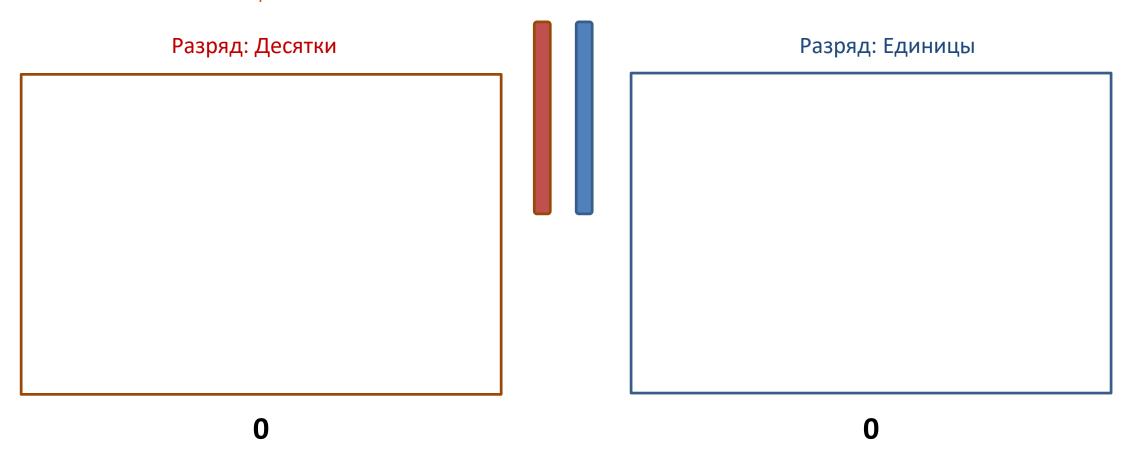
Славянская



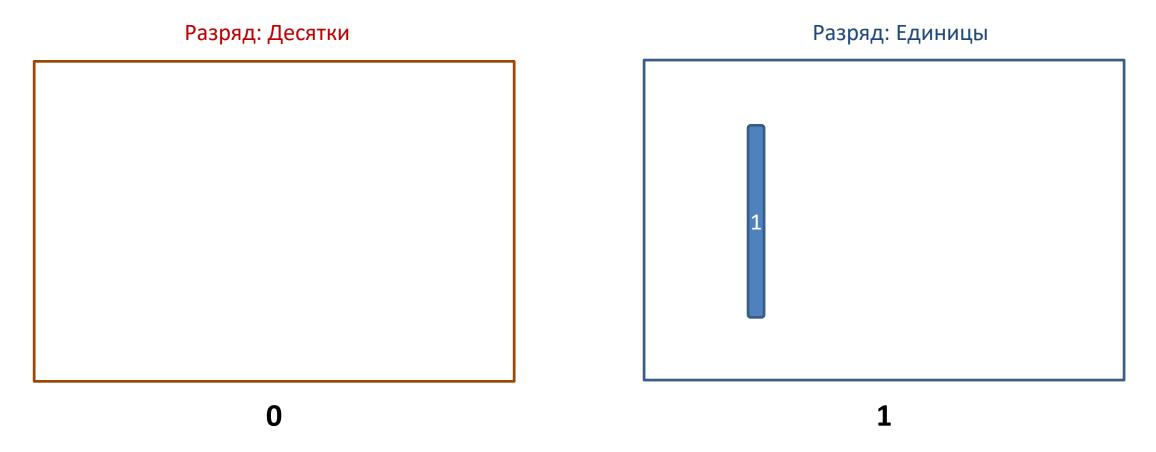




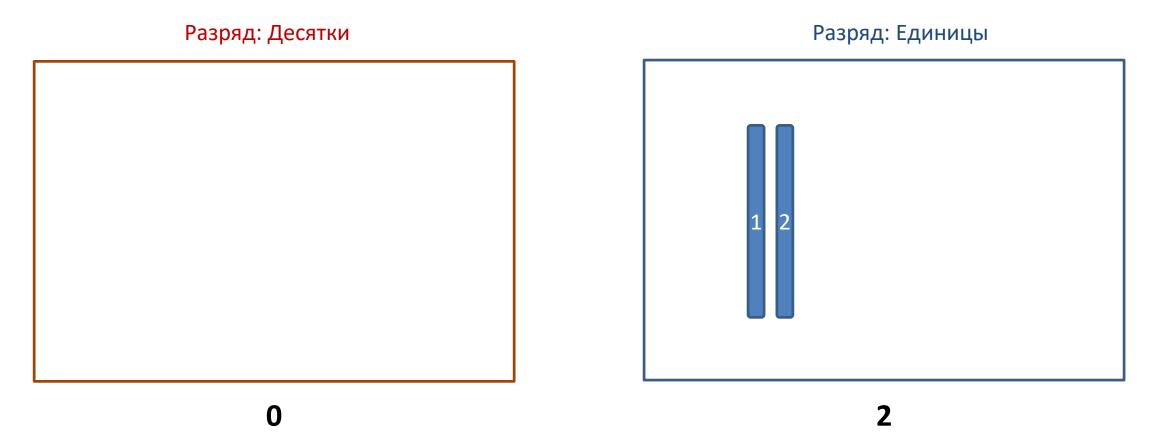




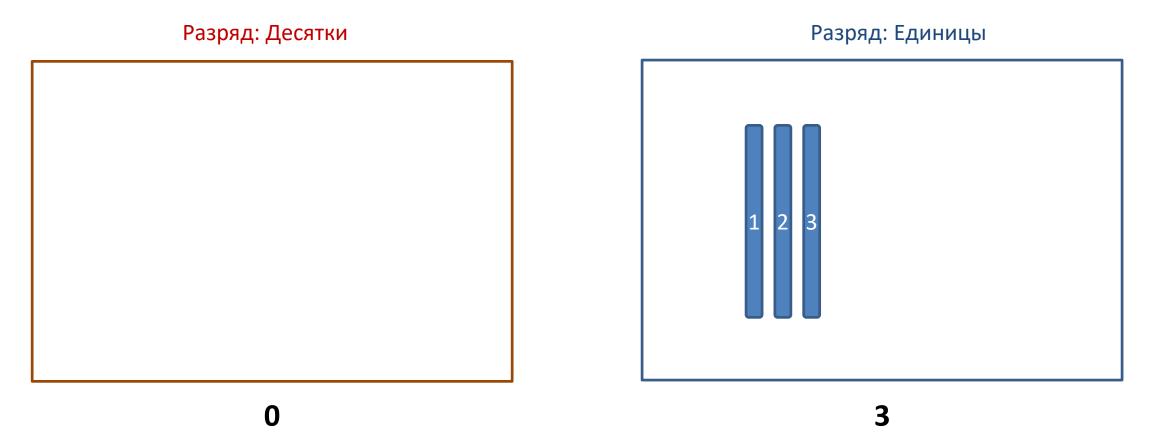




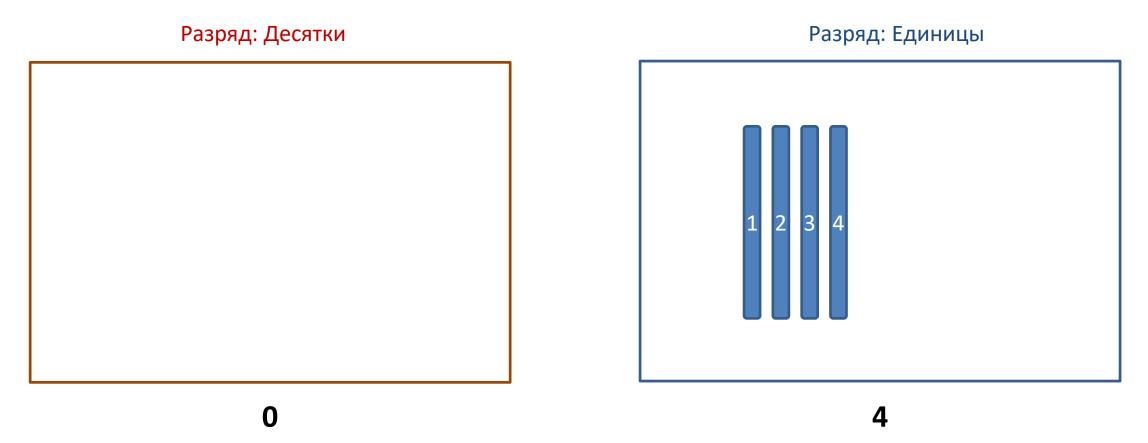




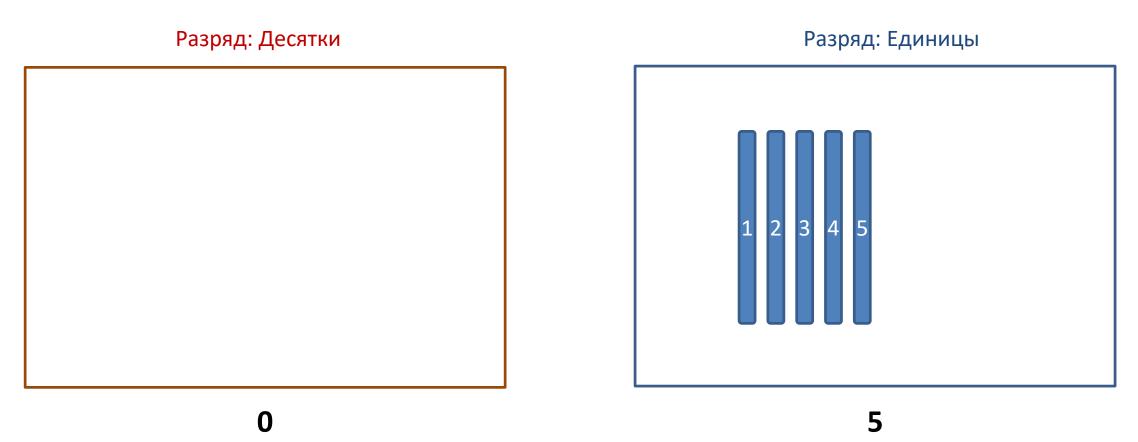




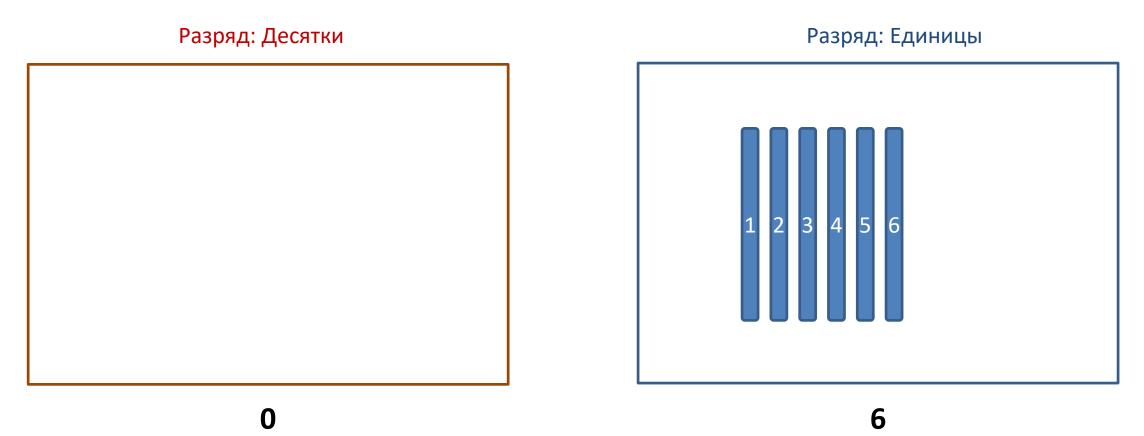






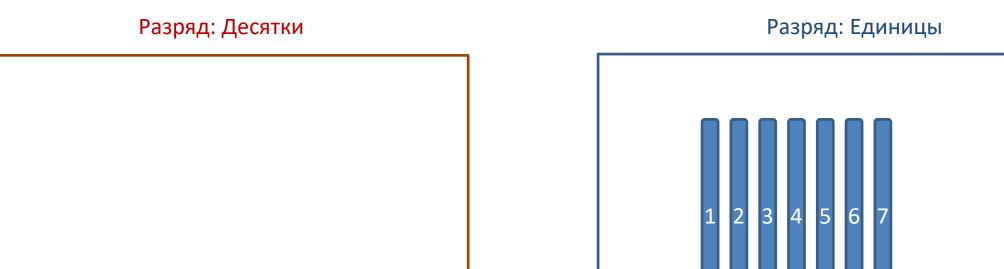




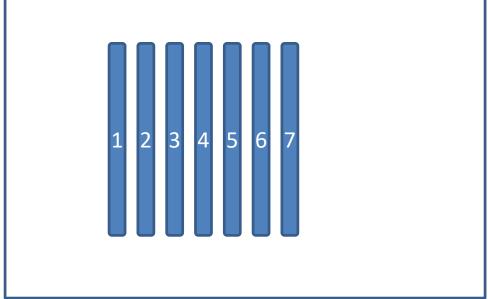




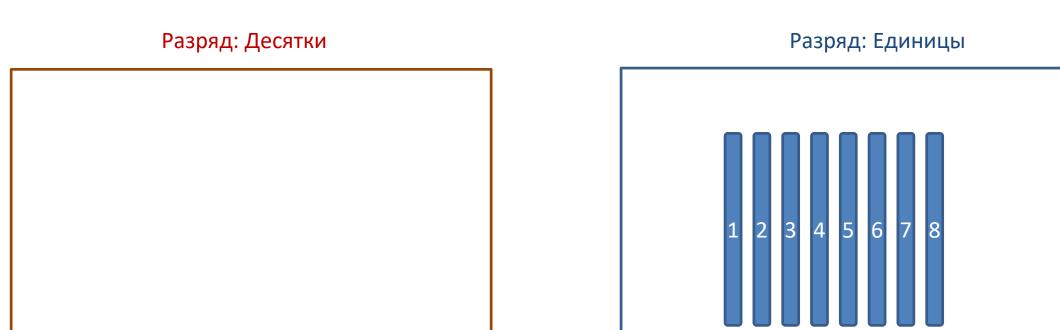
Арабская (десятичная) система счисления



0



Арабская (десятичная) система счисления

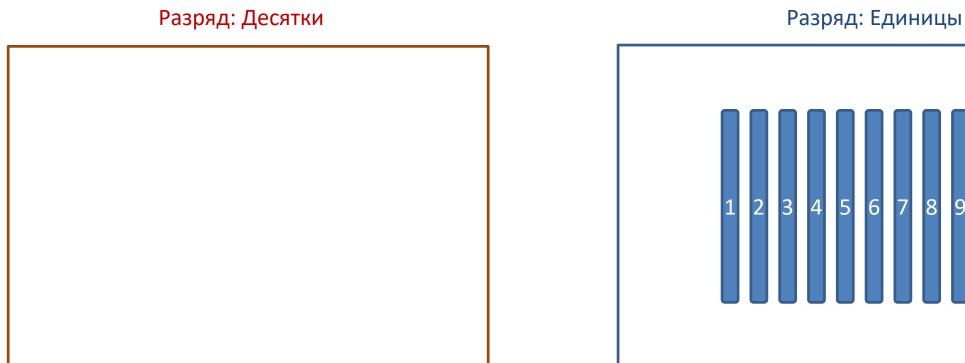


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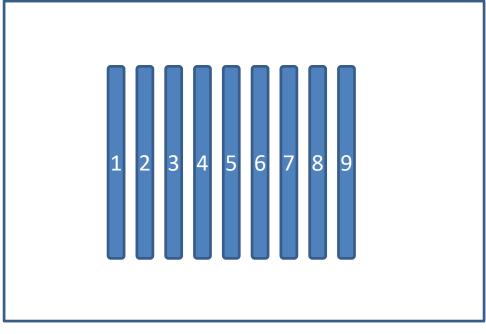




Арабская (десятичная) система счисления



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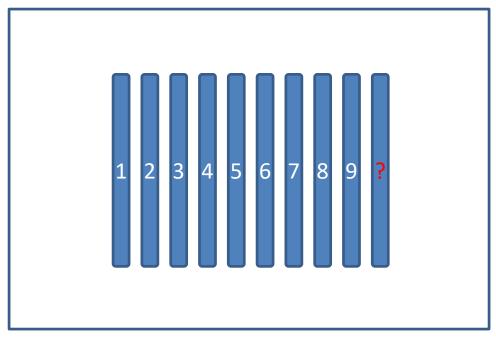
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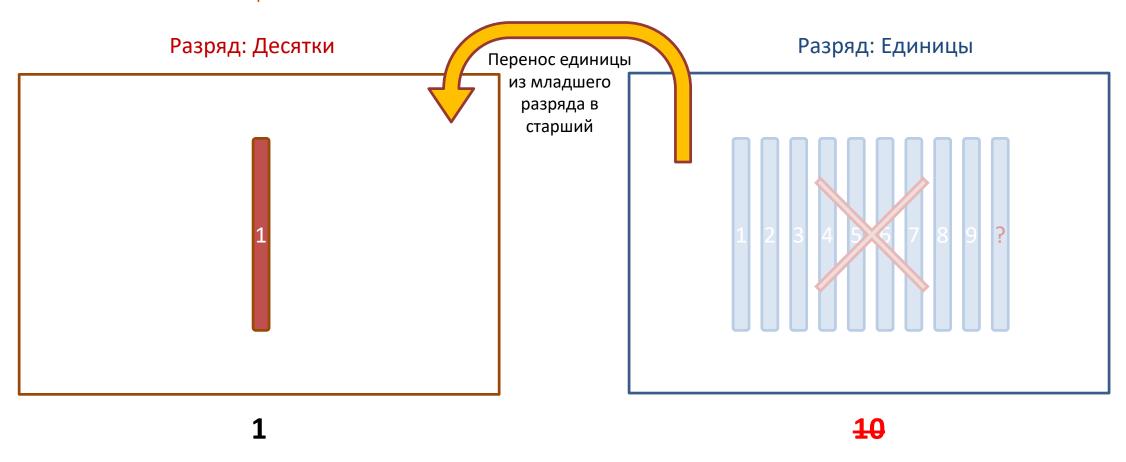
Арабская (десятичная) система счисления



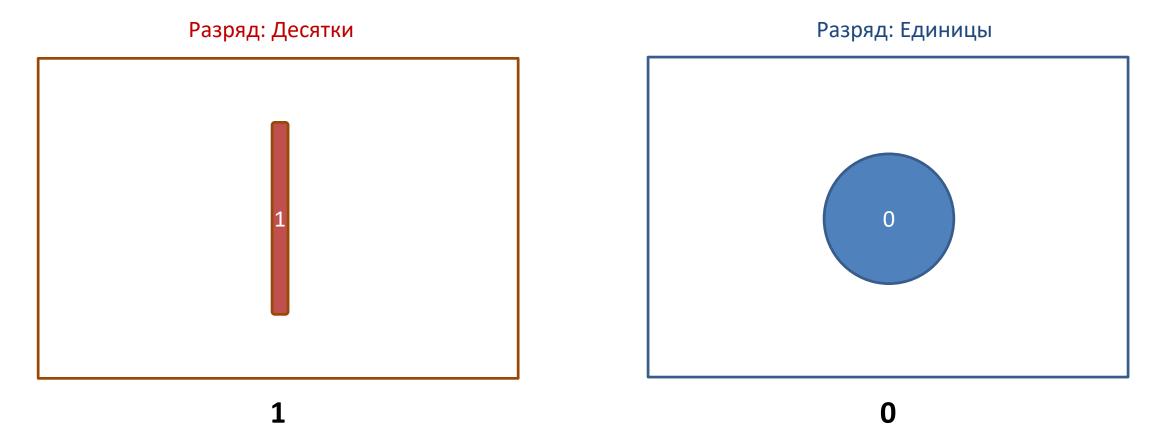




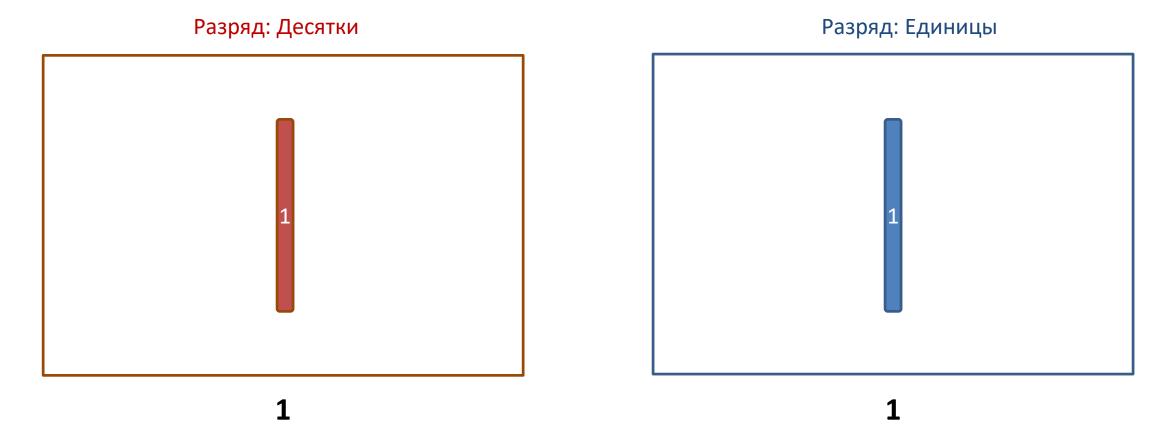
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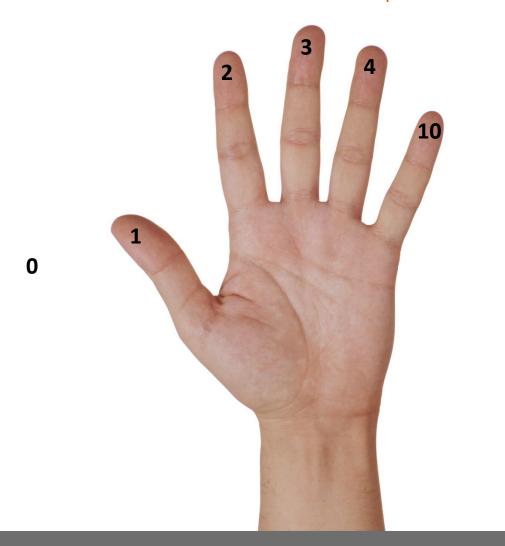








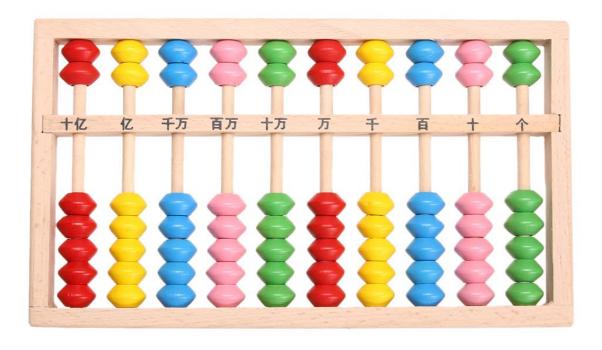
Китайская (пятеричная) система счисления



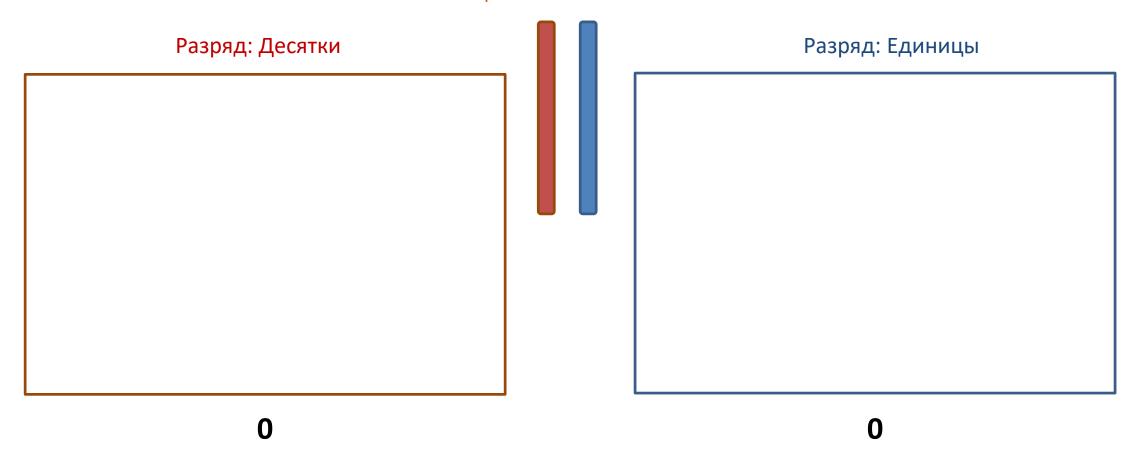
5, 6, 7, 8, 9



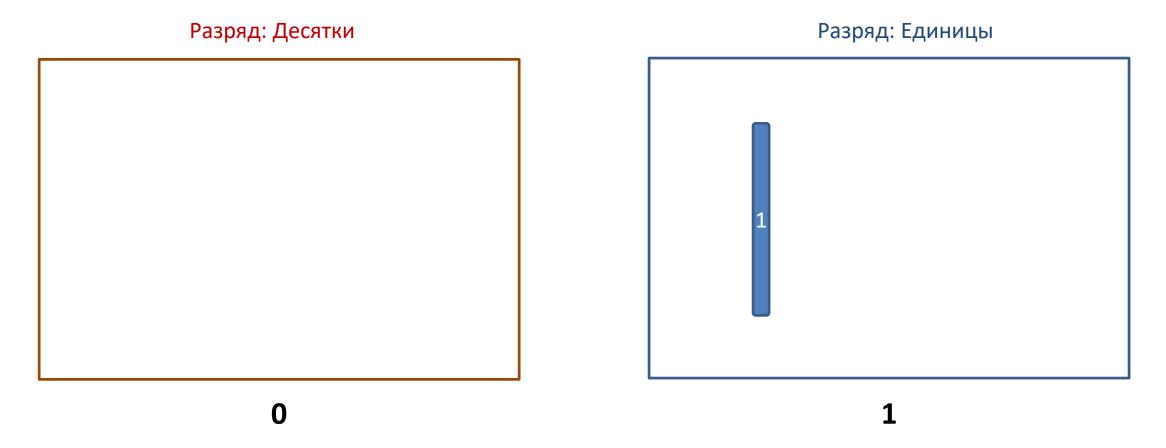




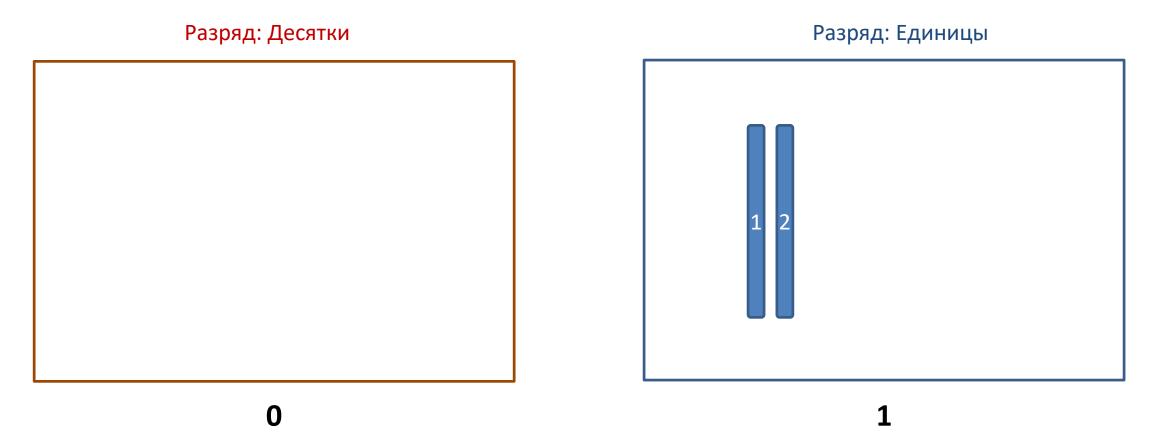




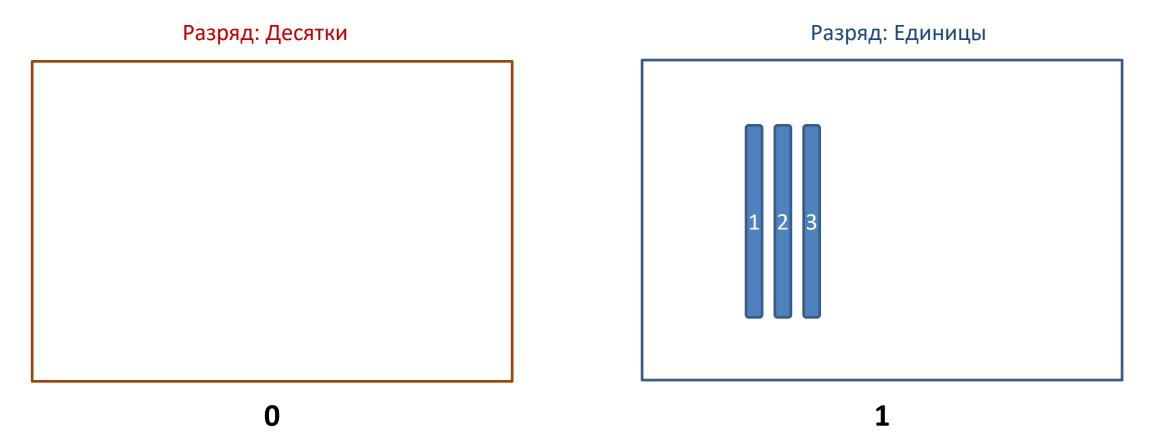




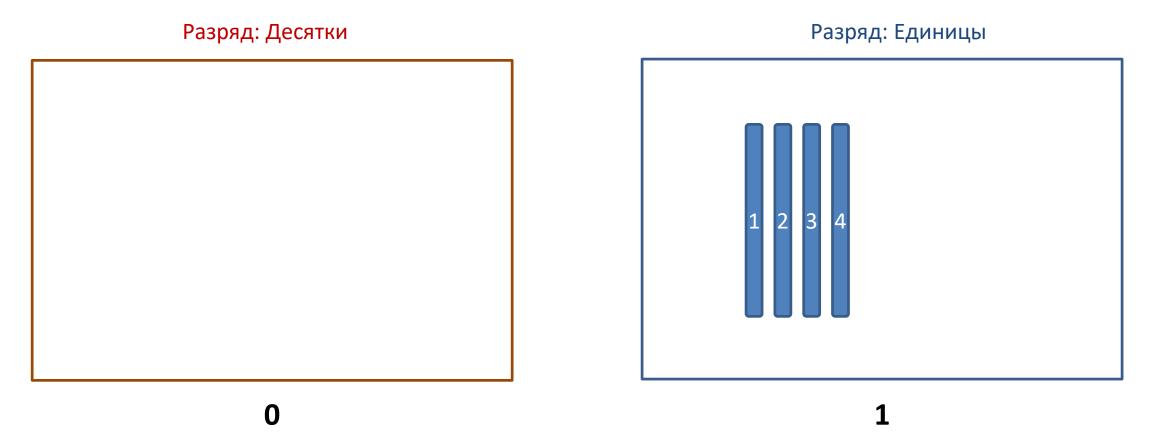










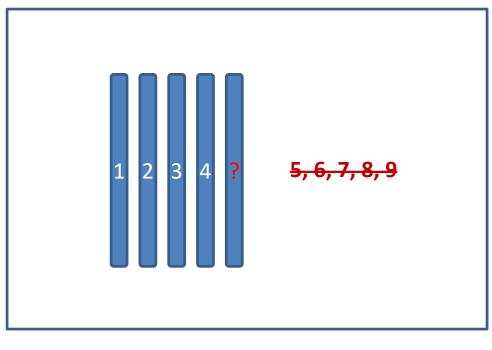




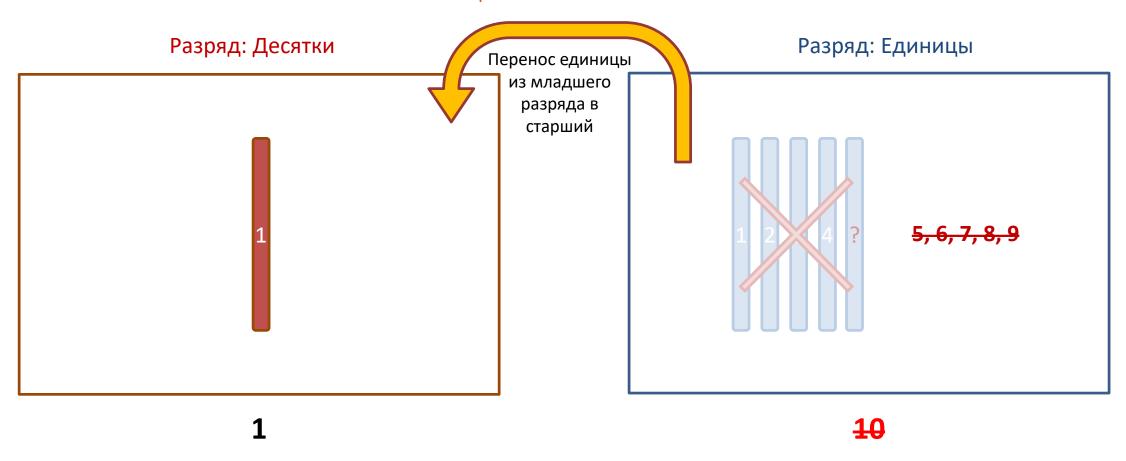
Китайская (пятеричная) система счисления



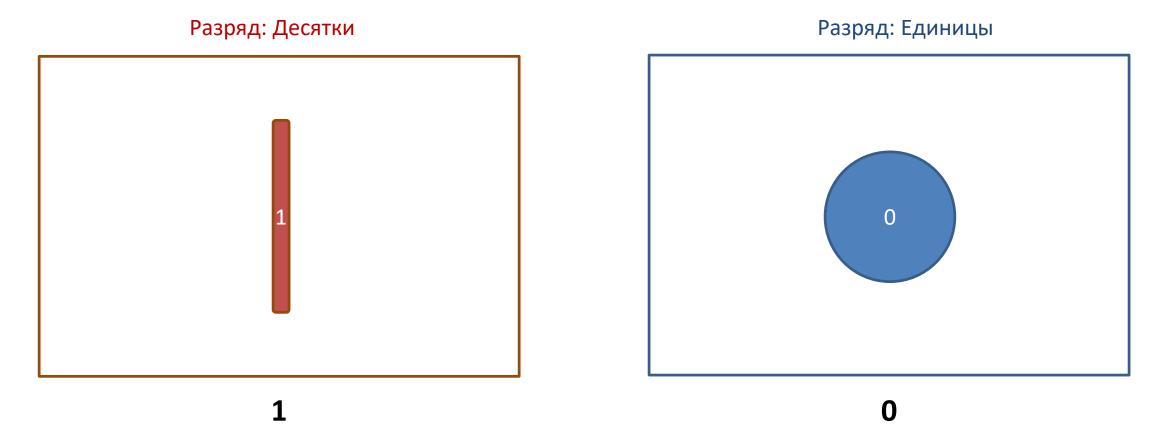




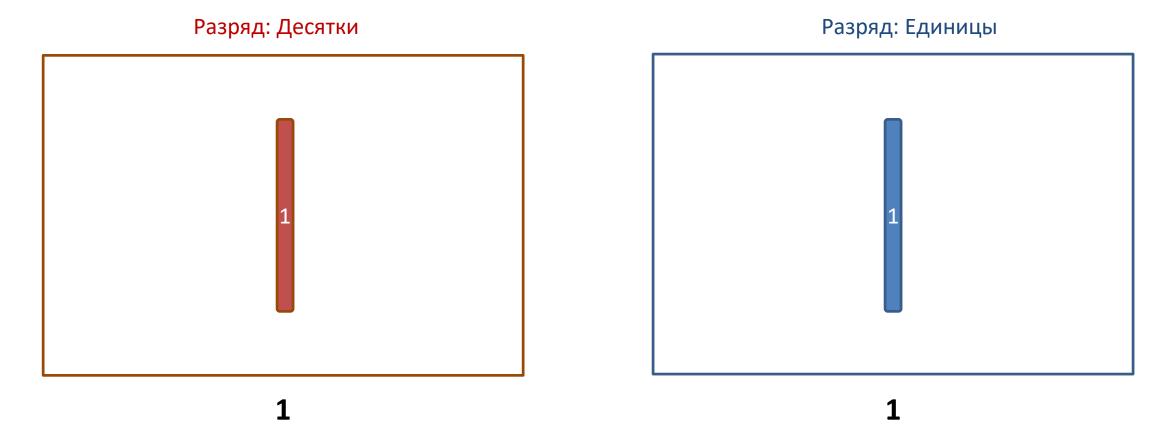
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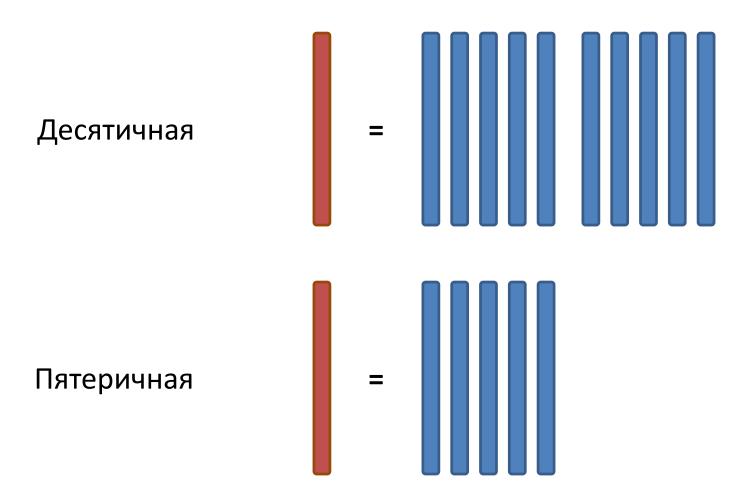








Сравнение десятичной и пятеричной систем счисления







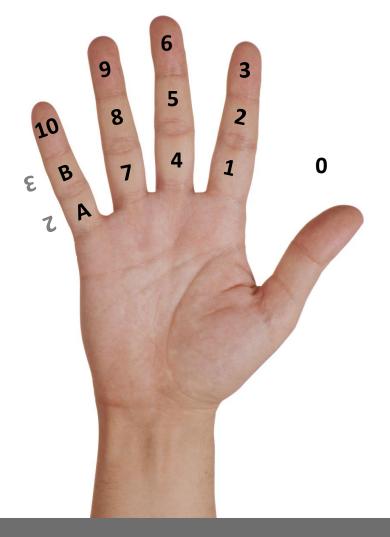


Натуральный ряд в пятеричной системе счисления

0, 1, 2, 3, 4, **10**, 11, 12, 13, 14, **20**, 21, 22, 23, 24, **30**, 31, 32, 33, 34, **40**, 41, 42, 43, 44, **100**, 101, 102, 103, 104, **110**, 111, 112, 113, 114, **120**, 121, 122, 123, 124, **130**, 131, 132, 133, 134, **140**, 141, 142, 143, 144, **200**, 201, 202, 203, 203, **210**, 211, 212, 213, 214, **220**, 221, 222, 223, 224, **230**, 231, 232, 233, 234, **240**, 241, 242, 243, 244, **300**, 301, 302, 303, 304, **310**, 311, 312, 313, 314, **320**, 321, 322, 323, 324, **330**, 331, 332, 333, 334, **340**, 341, 342, 343, 344, **400**, 401, 402, 403, 404, **410**, 411, 412, 413, 414, **420**, 421, 422, 423, 424, **430**, 431, 432, 433, 434, **440**, 441, 442, 443, 444, **1000**, 1001, 1002, 1003, 1004, **1010**, 1011 ...

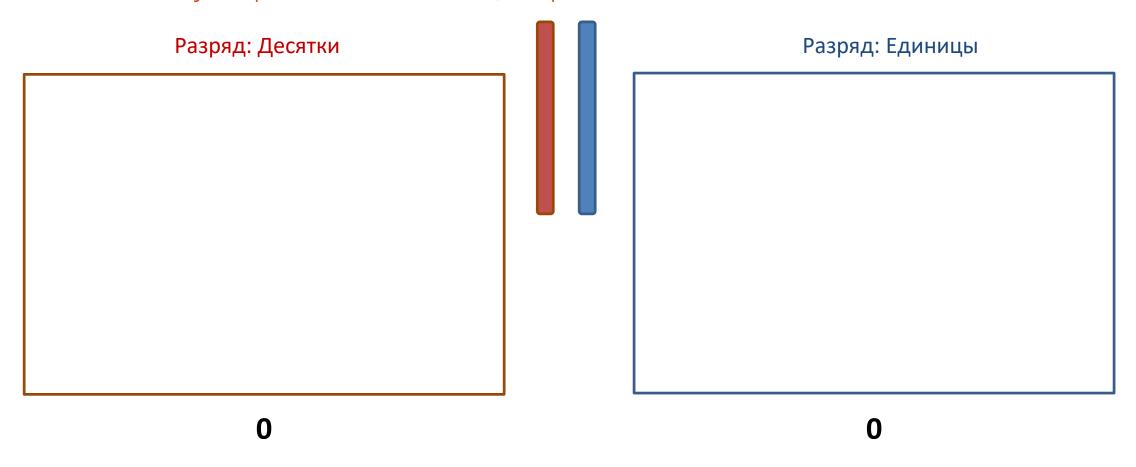


Шумерская (двенадцатеричная) система счисления



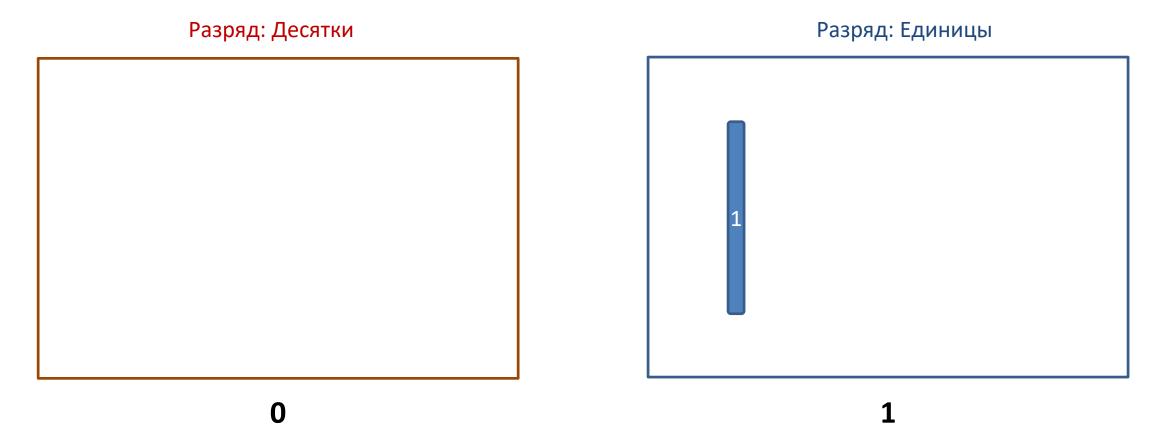


Шумерская (двенадцатеричная) система счисления

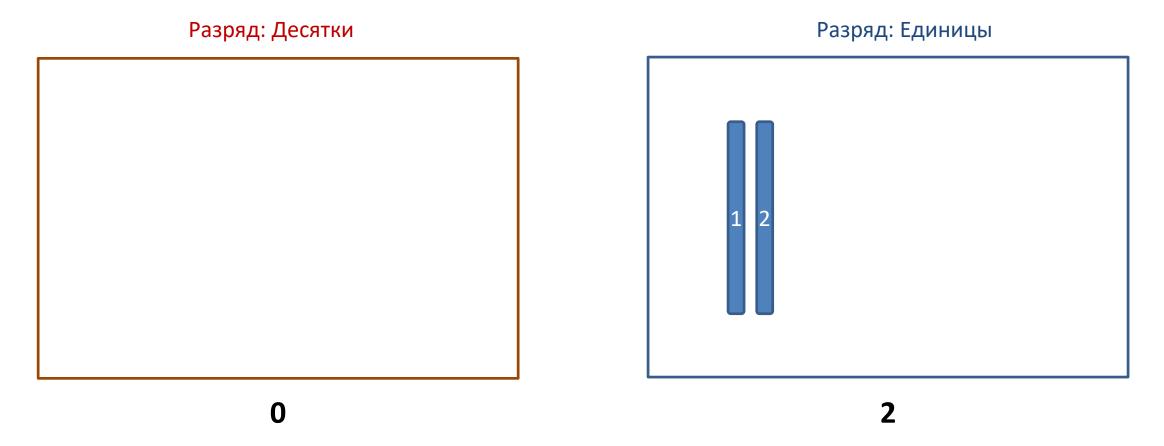




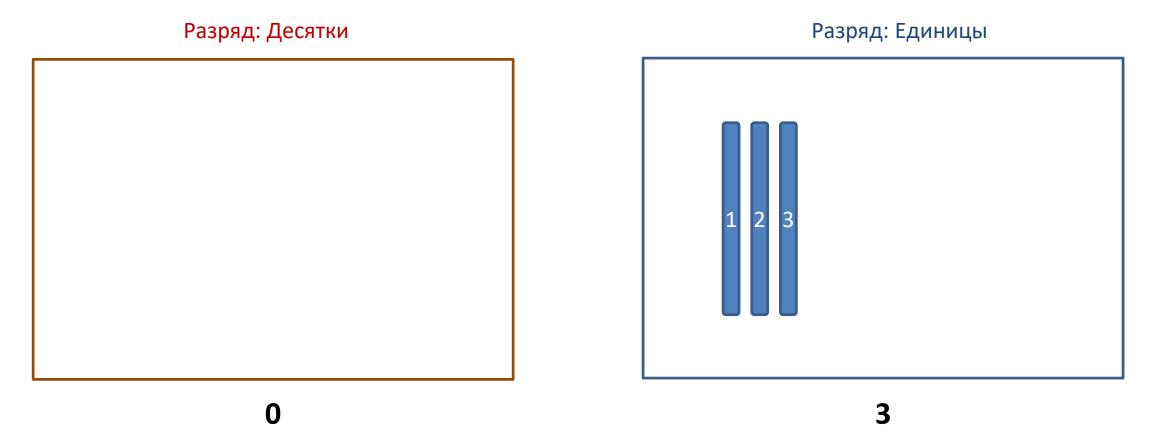
Шумерская (двенадцатеричная) система счисления



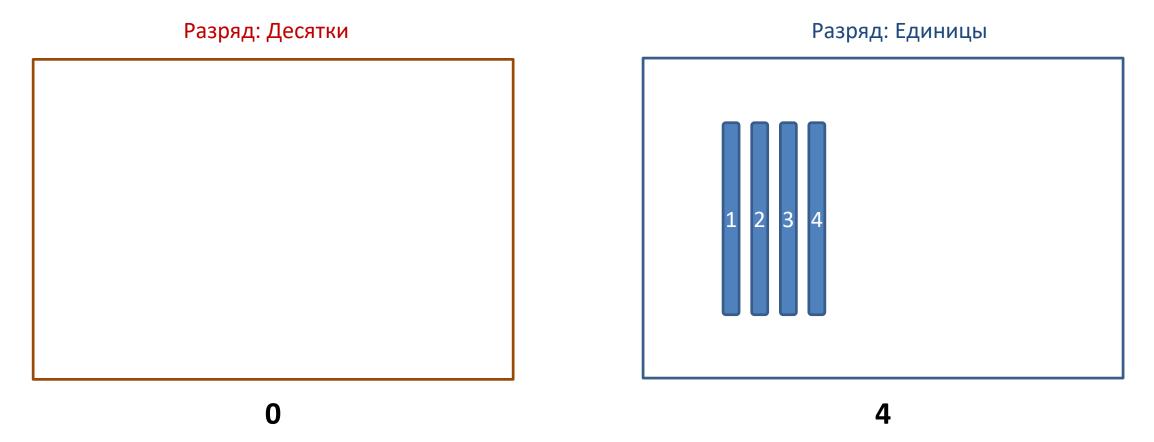




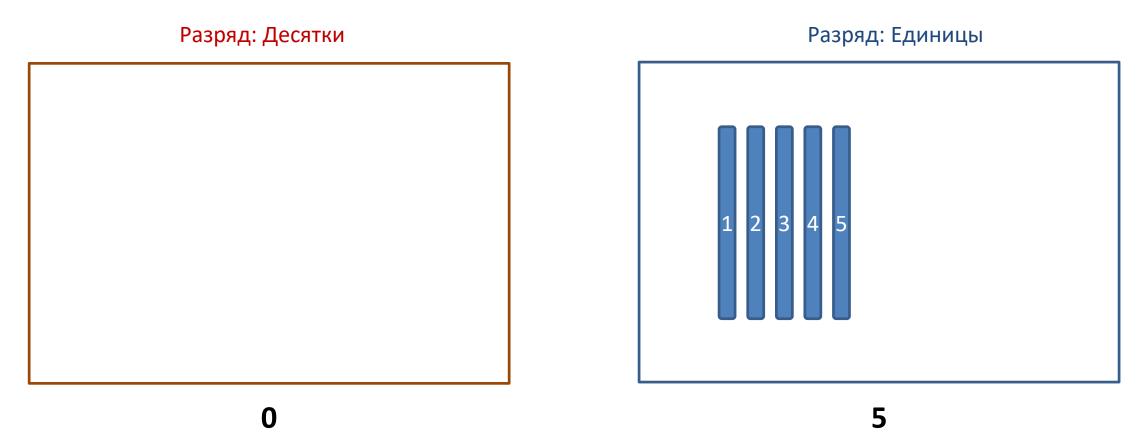




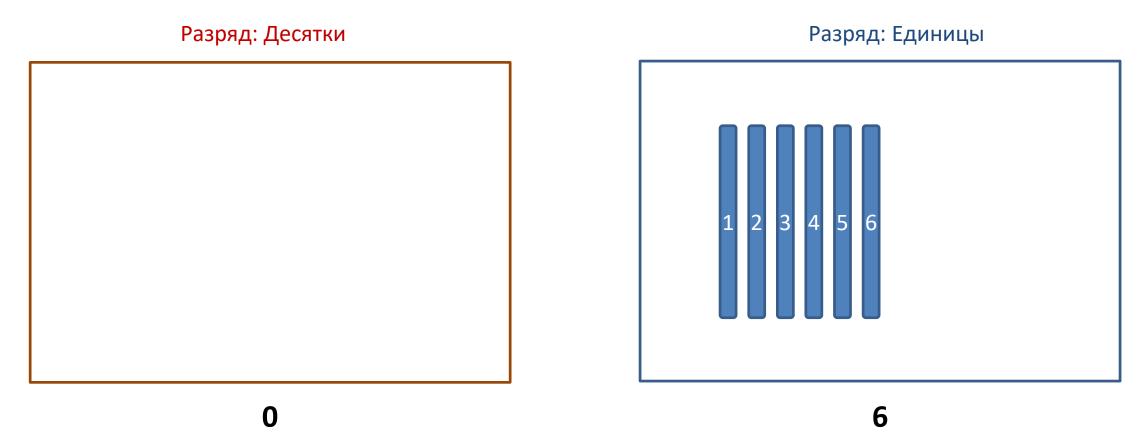








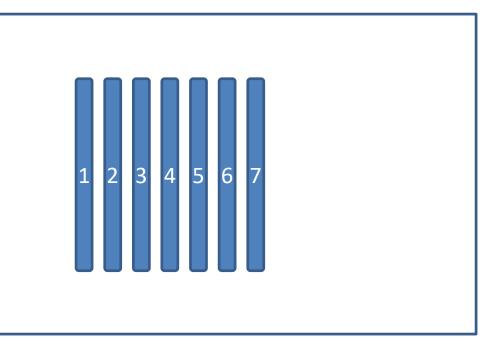






Шумерская (двенадцатеричная) система счисления





Разряд: Единицы

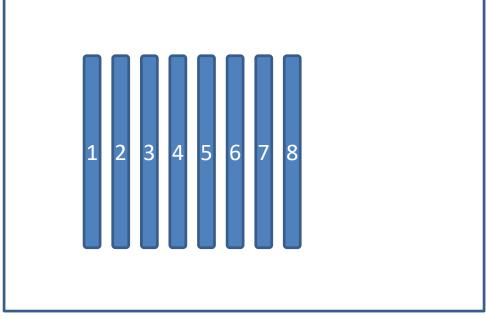
ITVDN

Шумерская (двенадцатеричная) система счисления



0

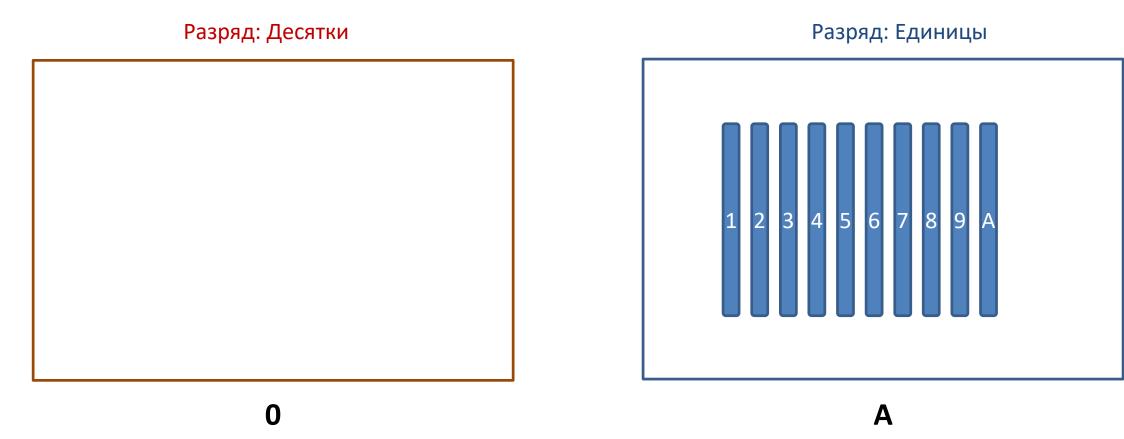




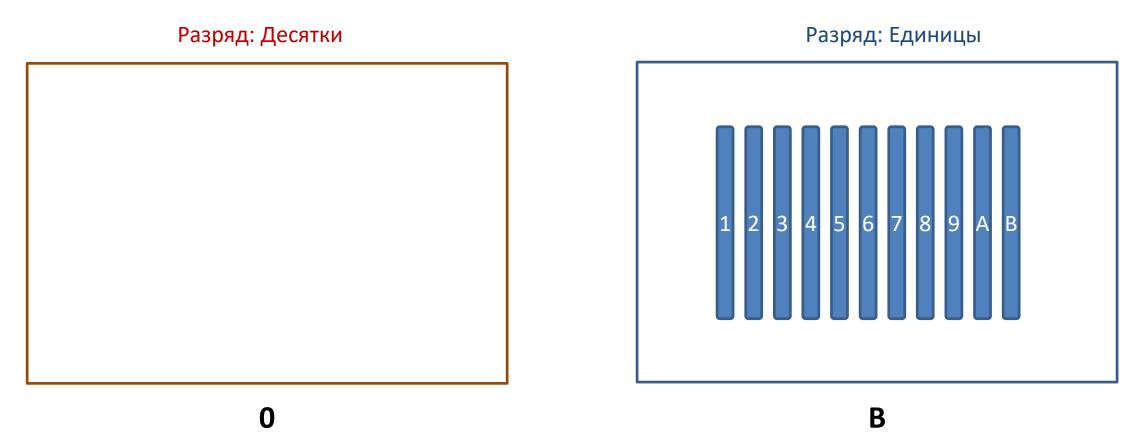












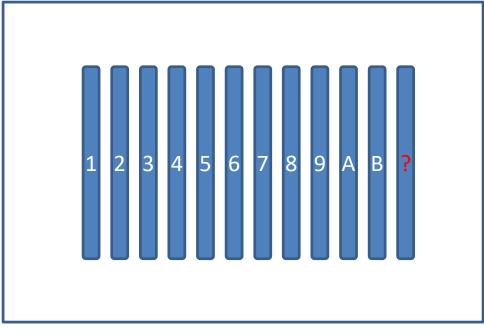


Шумерская (двенадцатеричная) система счисления

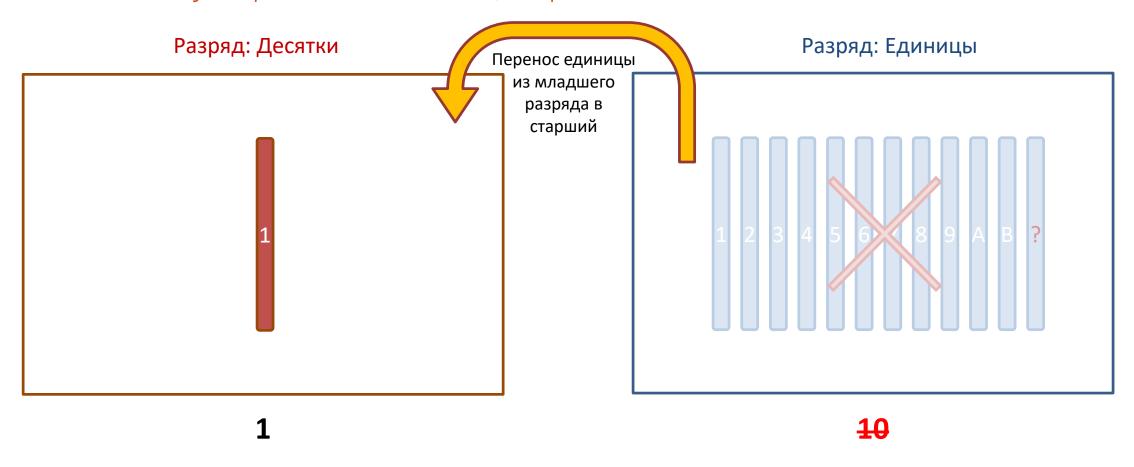


0

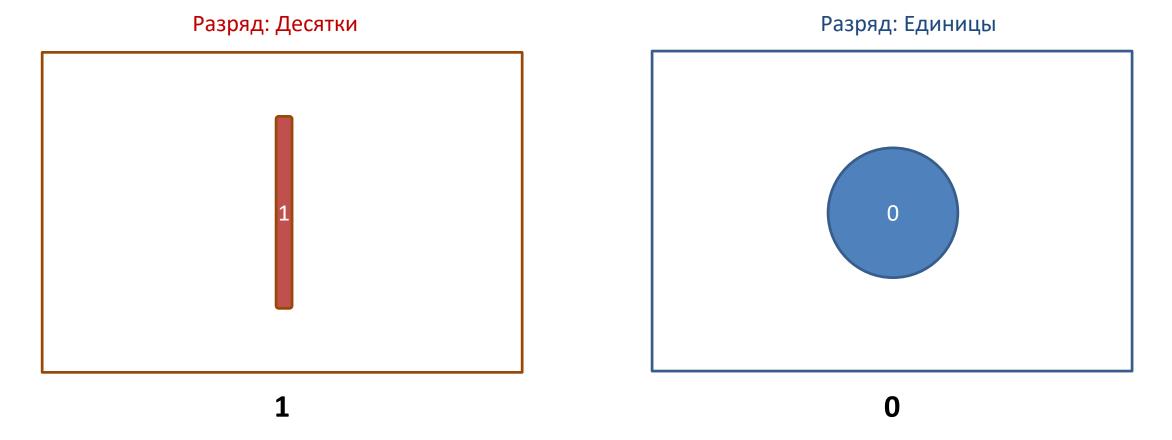




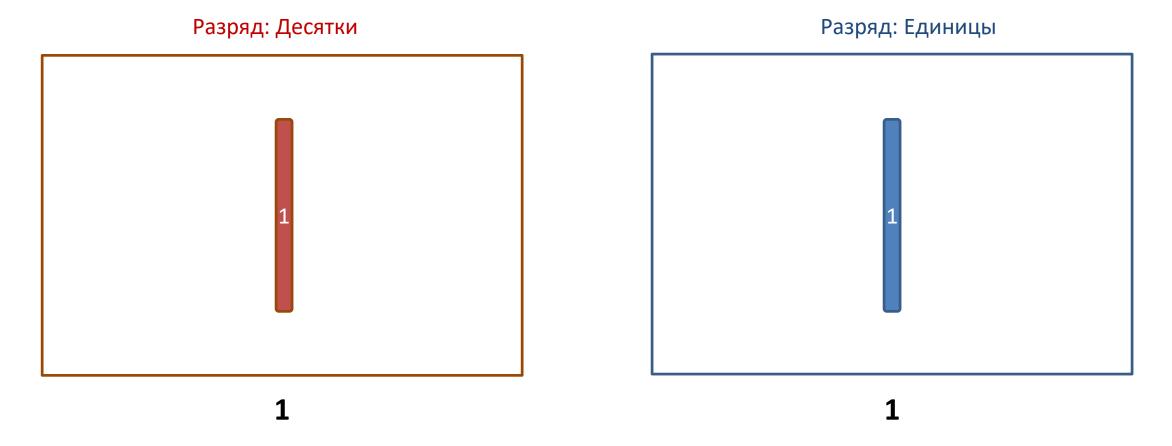
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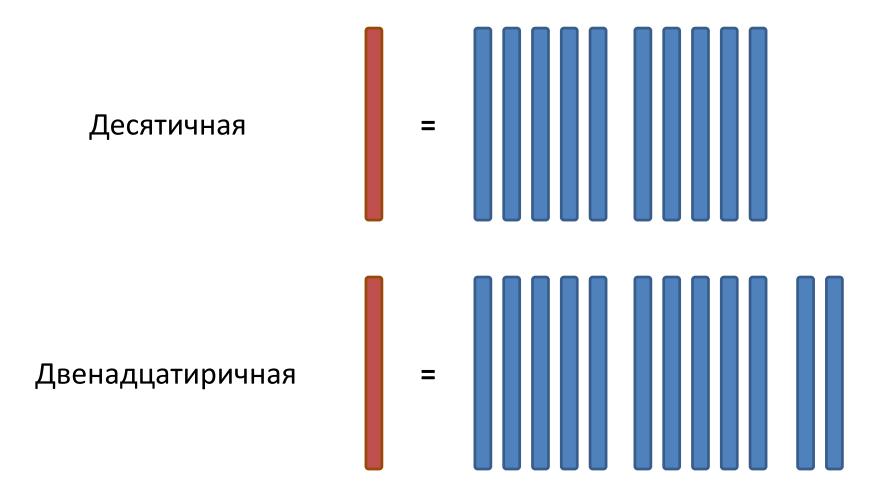






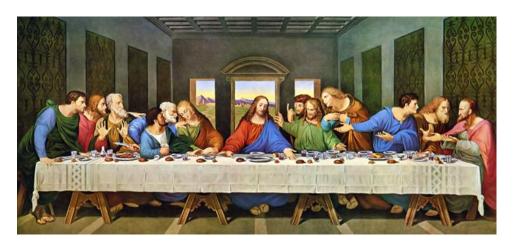


Сравнение десятичной и двенадцатеричной систем счисления





Использование двенадцатеричной системы счисления











1 британский шиллинг = 12 пенсов





























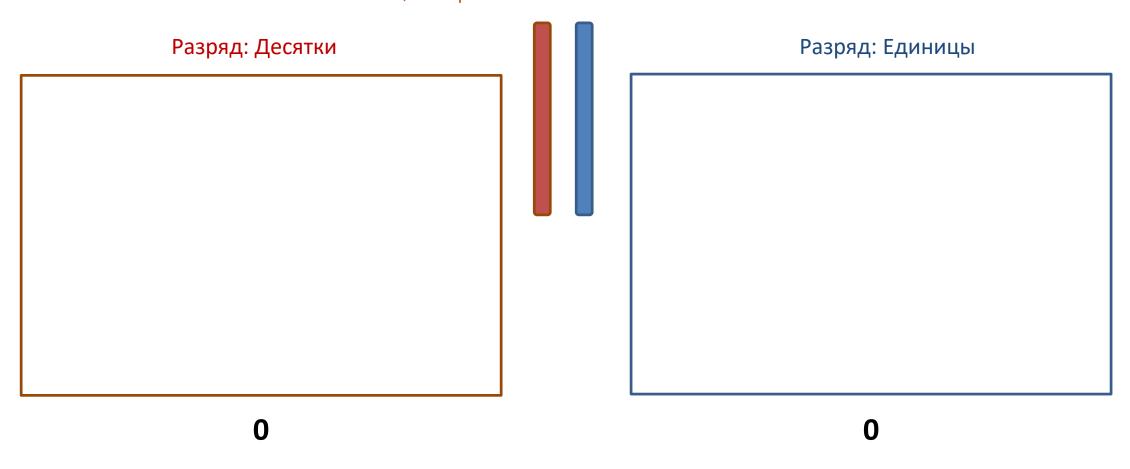
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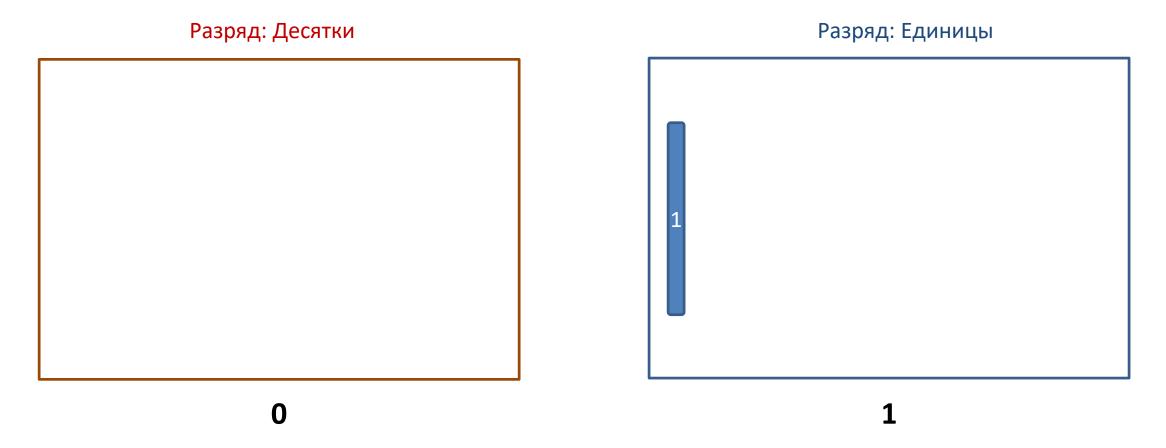




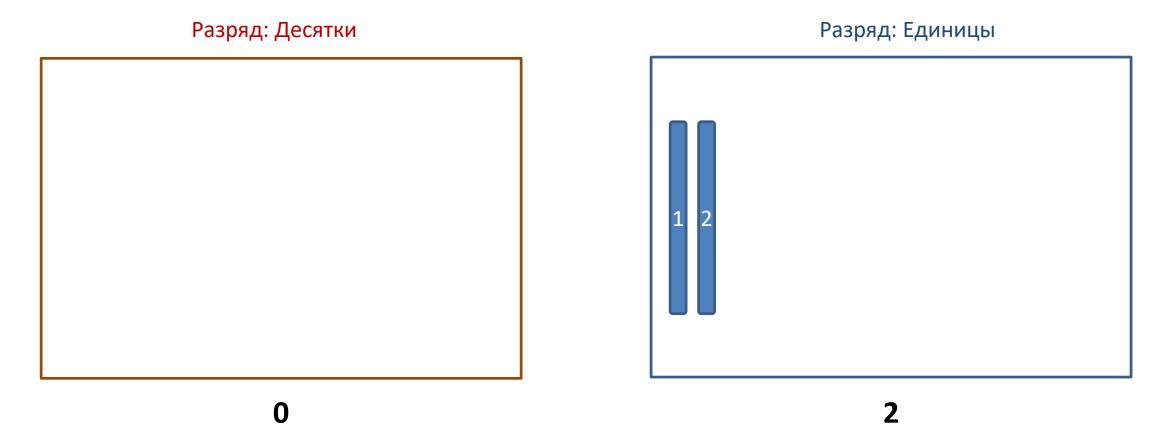




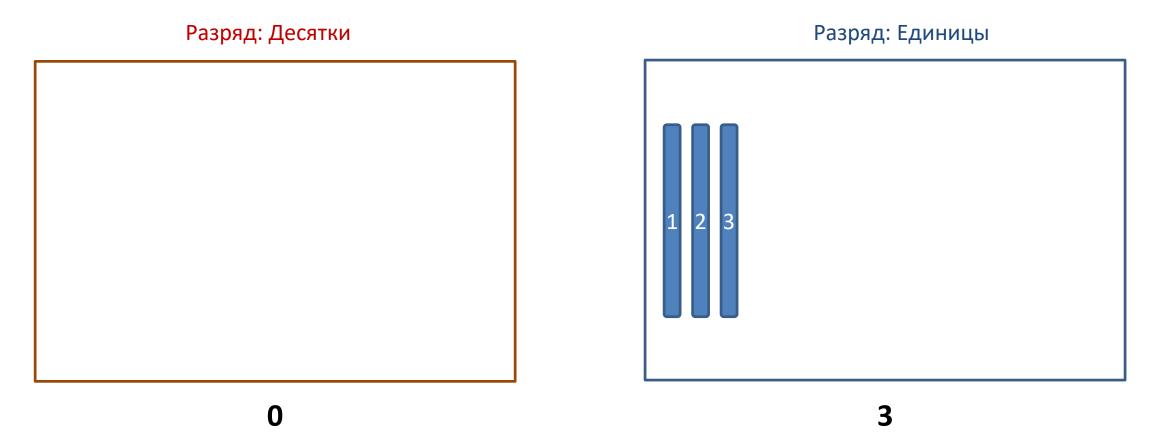




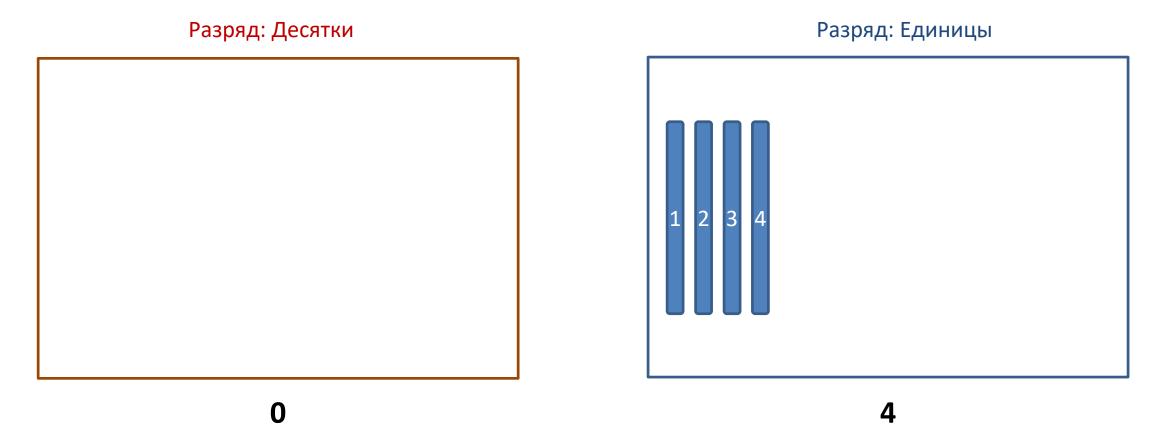




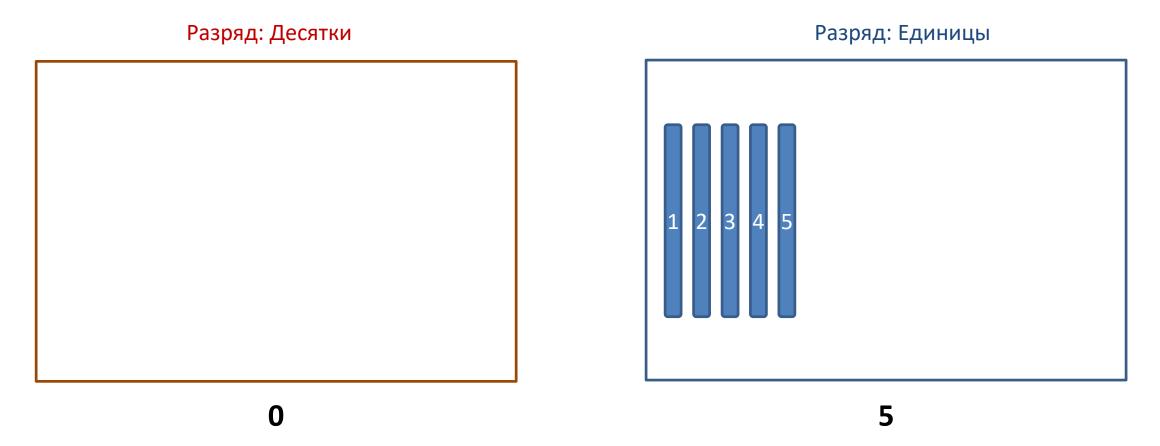




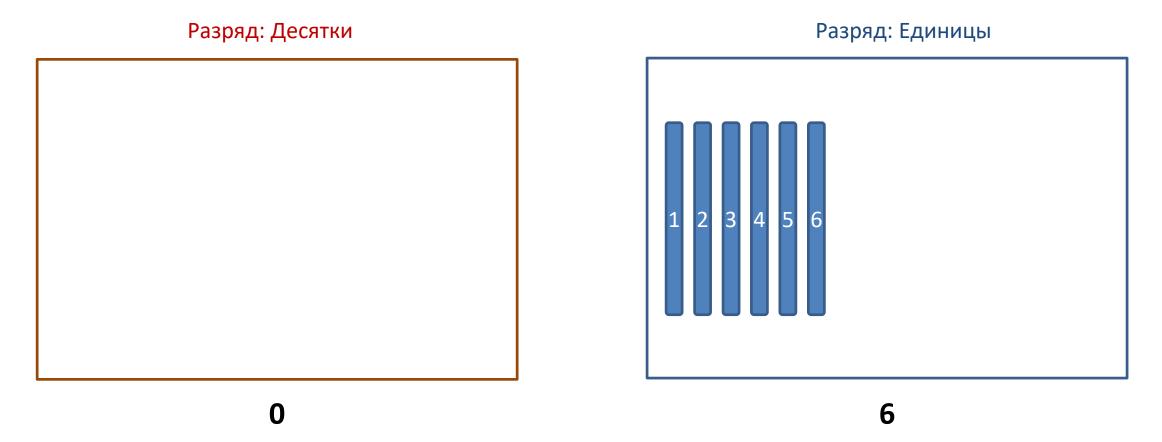




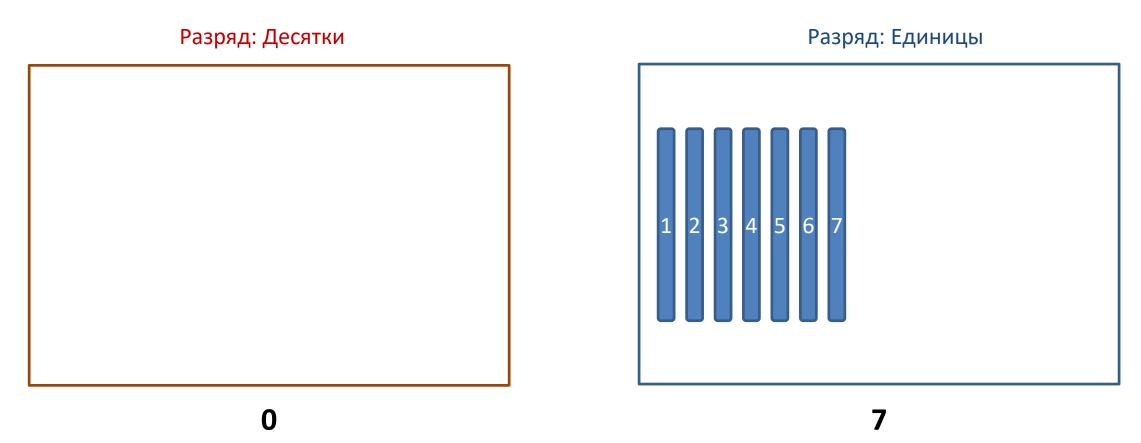




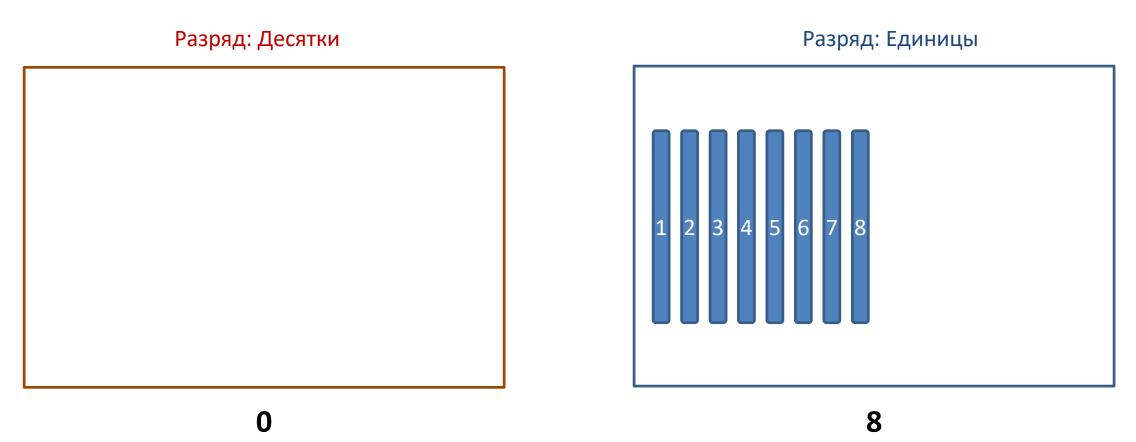




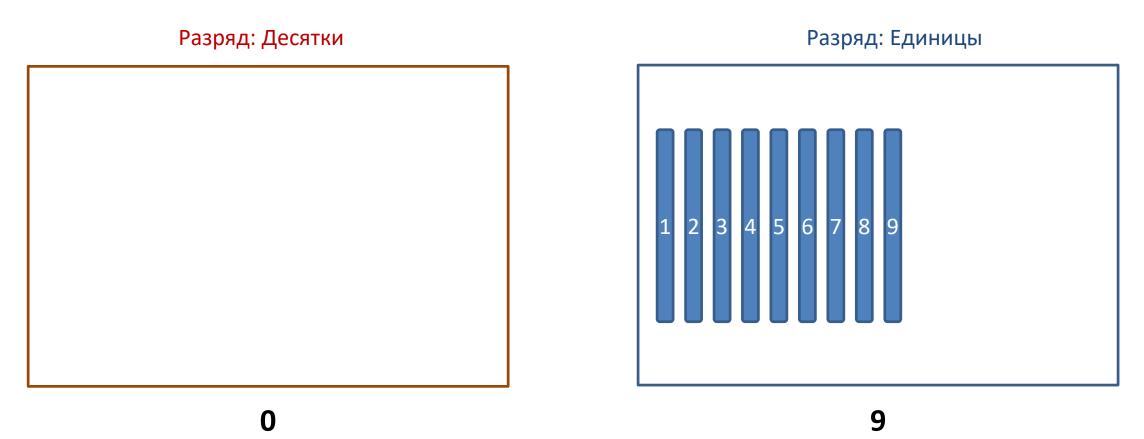




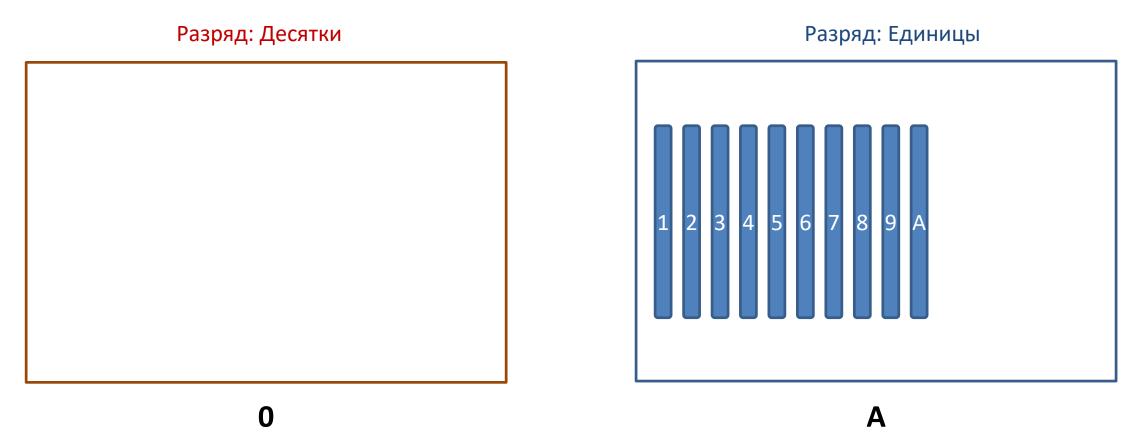




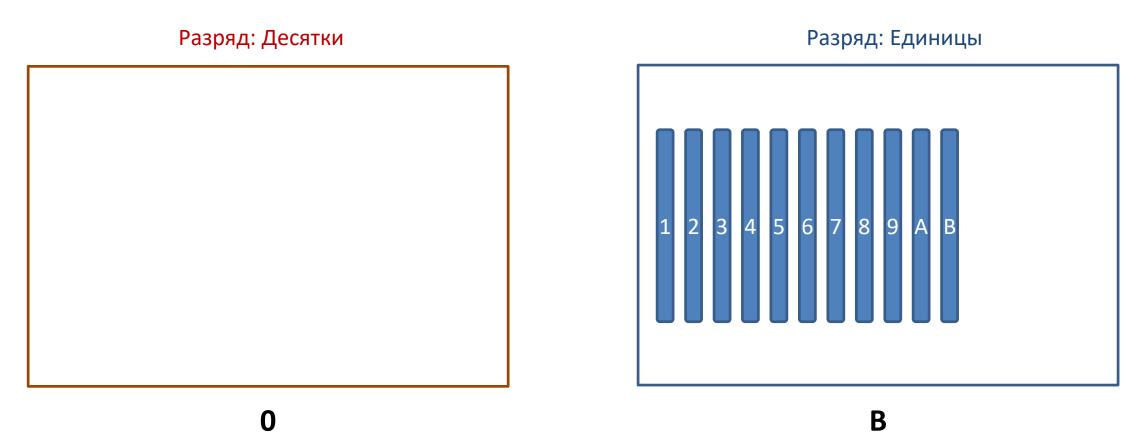




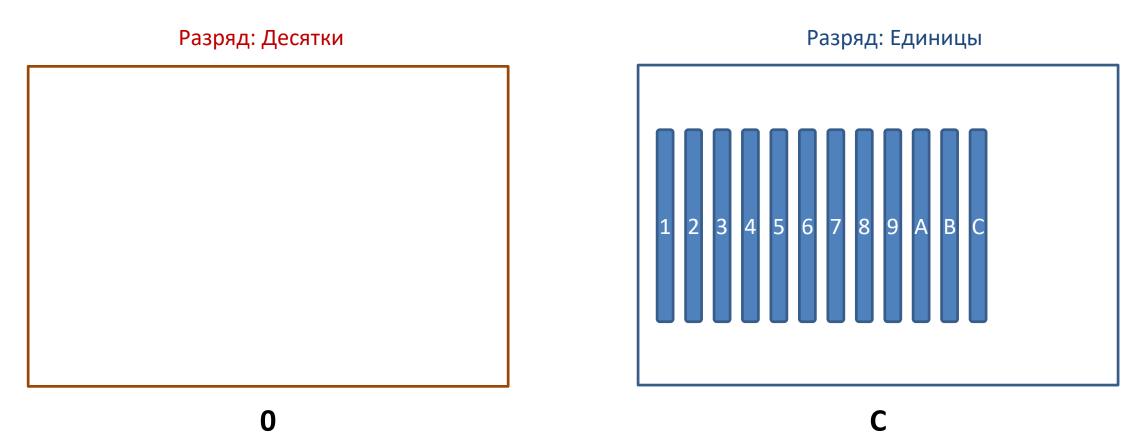




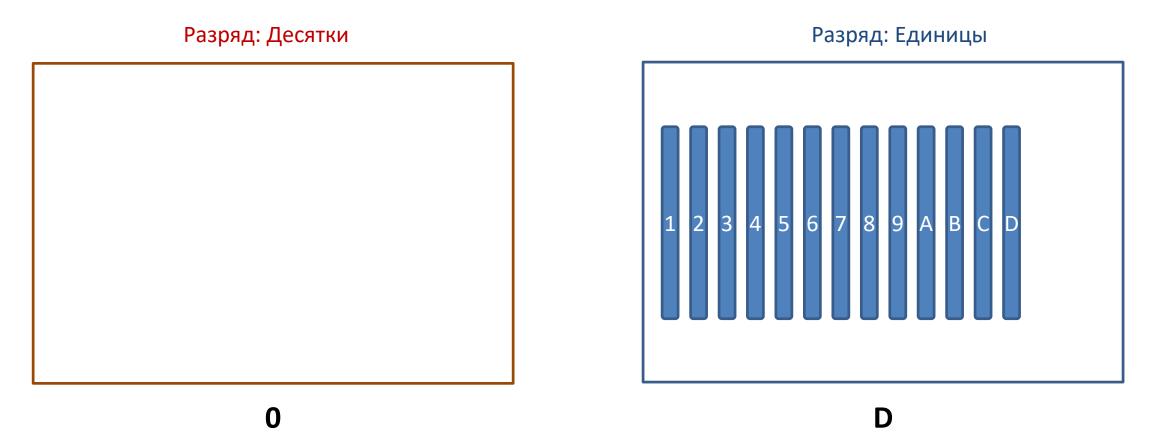




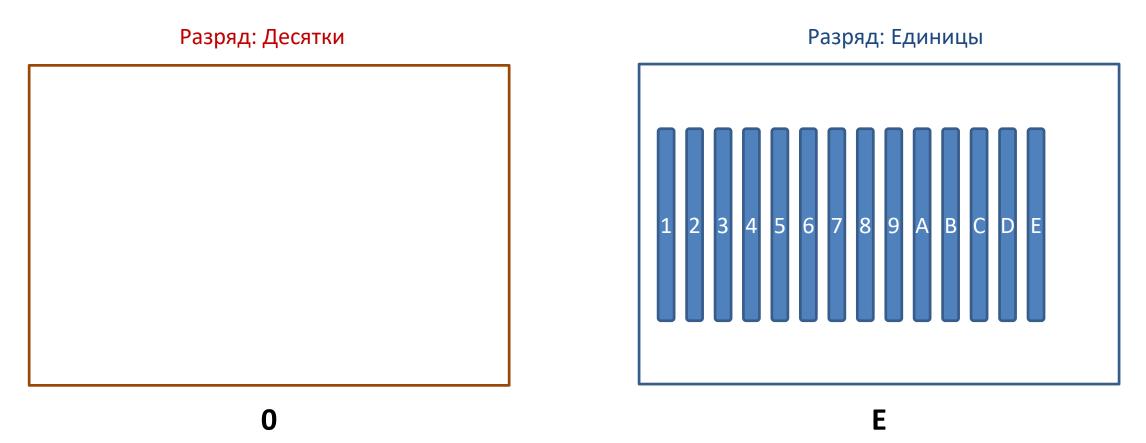




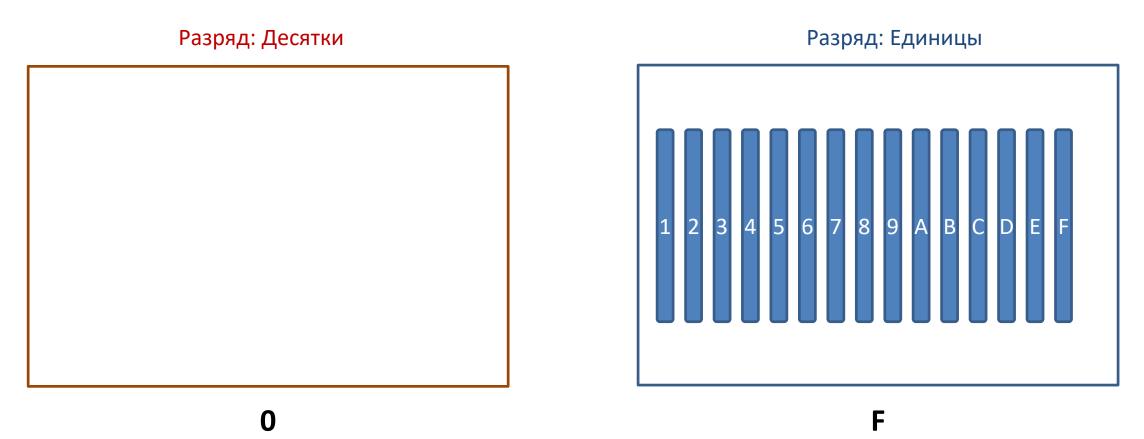












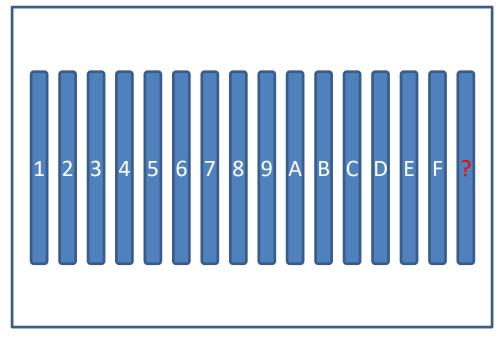


Шеснадцатеричная система счисления

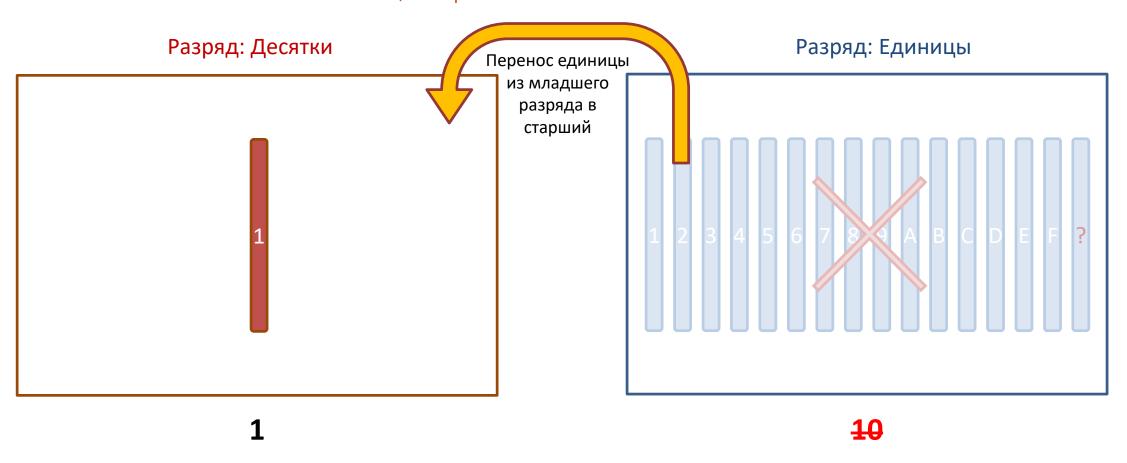


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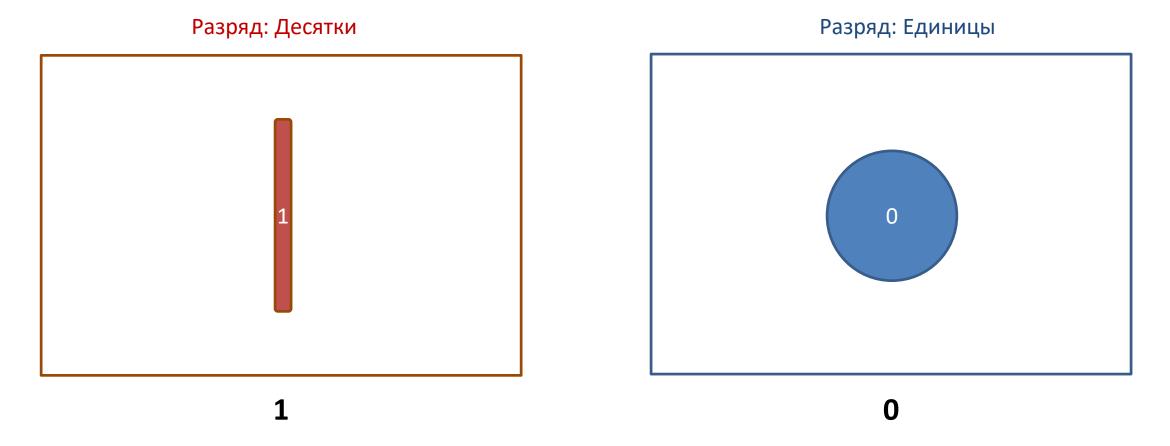


10



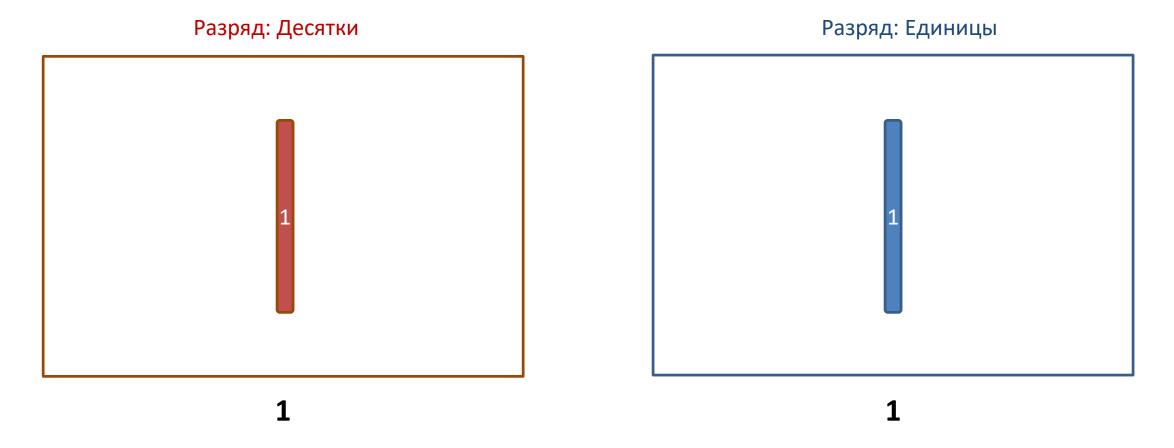


Шеснадцатеричная система счисления



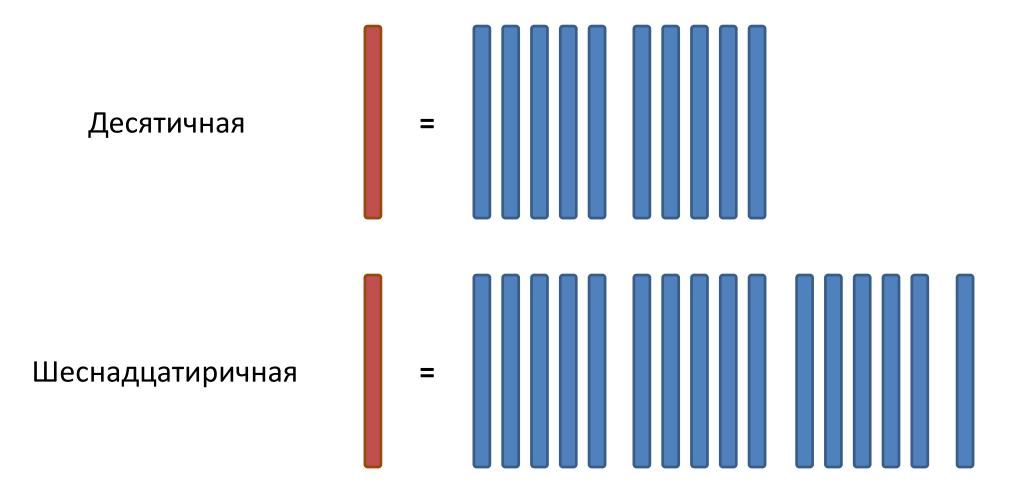


Шеснадцатеричная система счисления





Сравнение десятичной и шеснадцатеричной систем счисления





Натуральный ряд в шестнадцатеричной системе счисления

0, 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B, C, D, E, F, **10**, 11, 12, 13, 14, 15, 16, 17, 18, 19, 1A, 1B, 1C, 1D, 1E, 1F, **20**, 21, 22, 23, 24, 25, 26, 27, 28, 29, 2A, 2B, 2C, 2D, 2E, 2F, **30**, 31, 32, 33, 34, 35, 36, 37, 38, 39, 3A, 3B, 3C, 3D, 3E, 3F, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 4A, 4B, 4C, 4D, 4E, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 5A, 5B, 5C, 5D, 5E, 5F, **60**, 61, 62, 63, 64, 65, 66, 67, 68, 69, 6A, 6B, 6C, 6D, 6E, 6F, **70**, 71, 72, 73, 74, 75, 76, 77, 78, 79, 7A, 7B, 7C, 7D, 7E, 7F, **80**, 81, 82, 83, 84, 85, 86, 87, 88, 89, 8A, 8B, 8C, 8D, 8E, 8F, **90,** 91, 92, 93, 94, 95, 96, 97, 98, 99, 9A, 9B, 9C, 9D, 9E, 9F, **A0**, A1, A2, A3, A4, A5, A6, A7, A8, A9, AA, AB, AC, AD, AE, AF, **B0**, B1, B2, B3, B4, B5, B6, B7, B8 B9, BA, BB, BC, BD, BE, BF, C0, C1, C2, C3, C4, C5, C6, C7, C8, C9, CA, CB, CC, CD, CE, CF, D0, D1, D2, D3, D4, D5, D6, D7, D8, D9, DA, DB, DC, DD, DE, DF, E0, E1, E2, E3, E4, E5, E6, E7, E8, E9, EA, EB, EC, ED, EF, **FO**, F1, F2, F3, F4, F5, F6, F7, F8, F9, FA, FB, FC, FD, FE, FF, **100**, 101, 102, 103, 104, 105, 106, 107, 108, 109, 10A, 10B, 10C, 10D, 10E, 10F, **110**, 101, ...







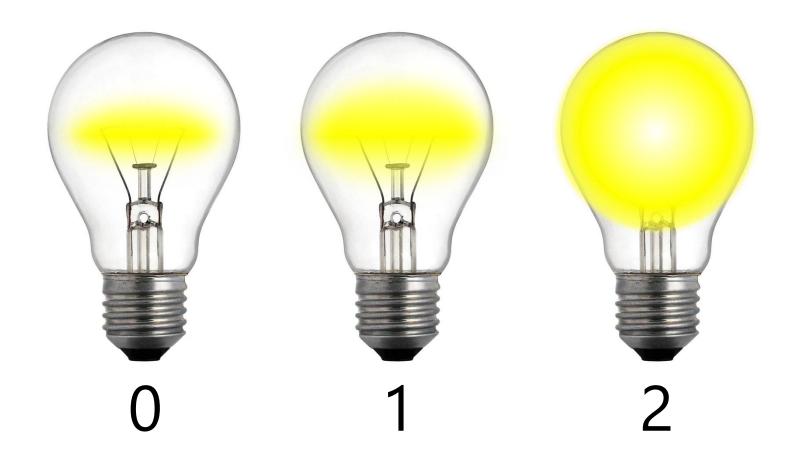
Состояния бита: 0 и 1



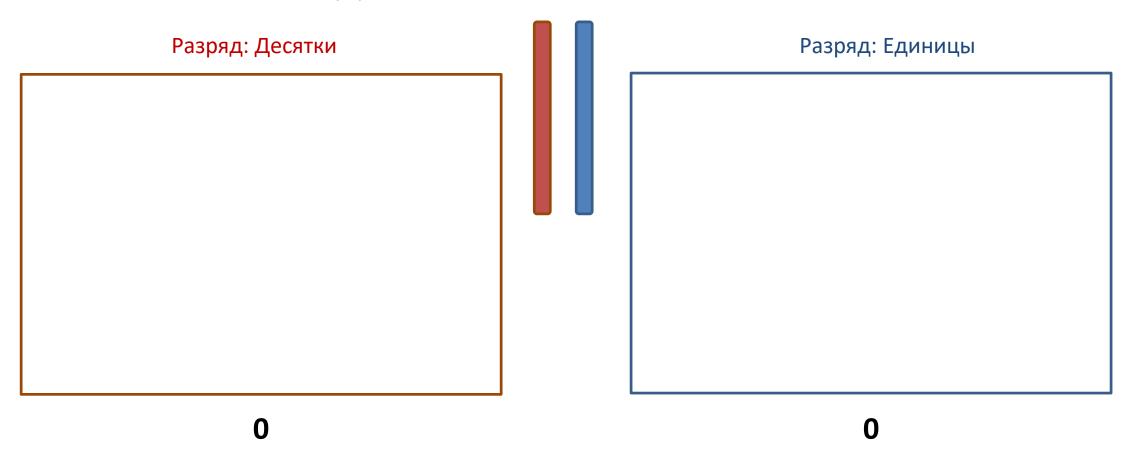




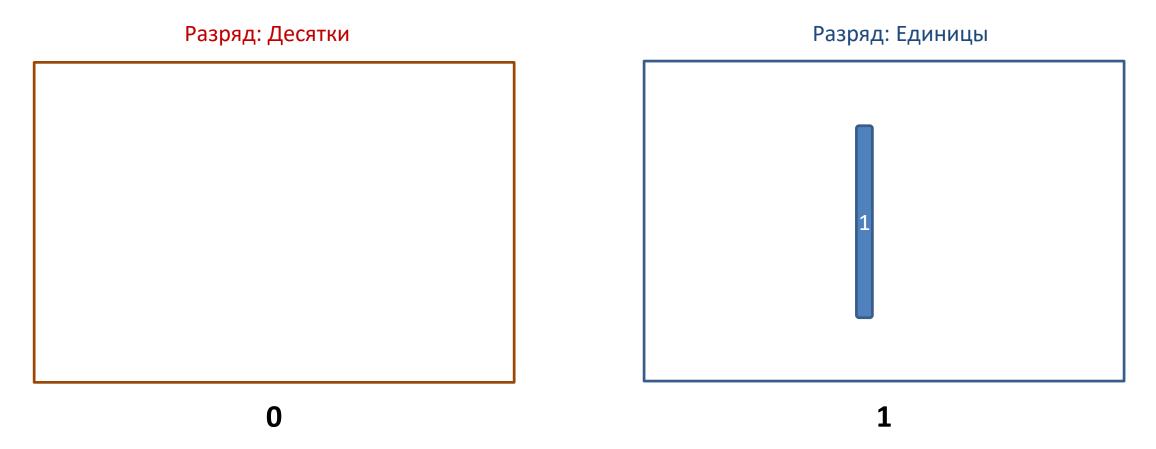
Состояния бита: 0, 1 и 2



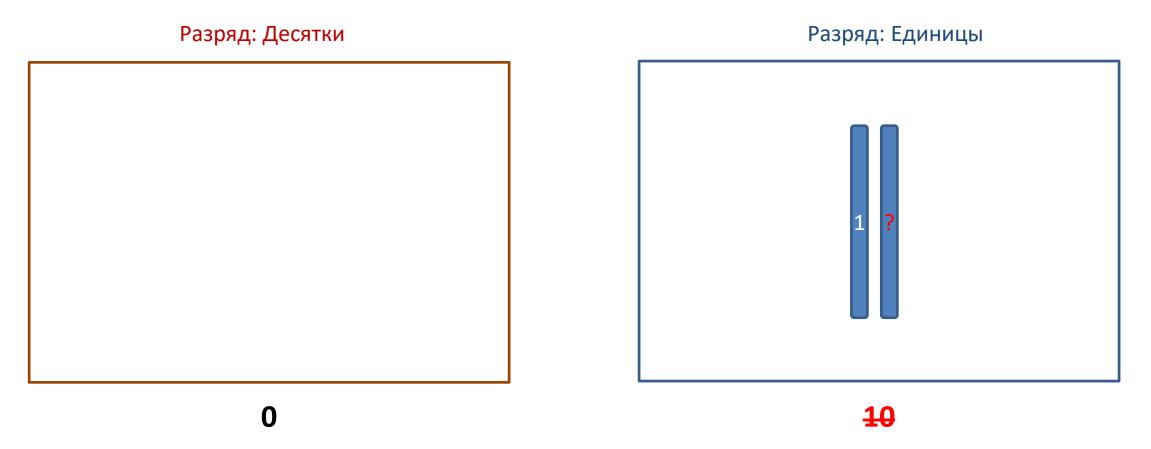




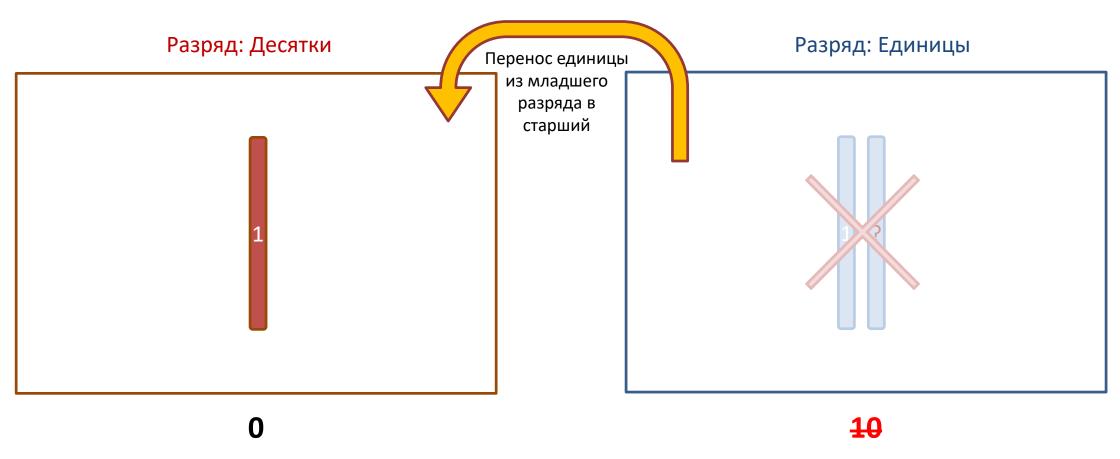




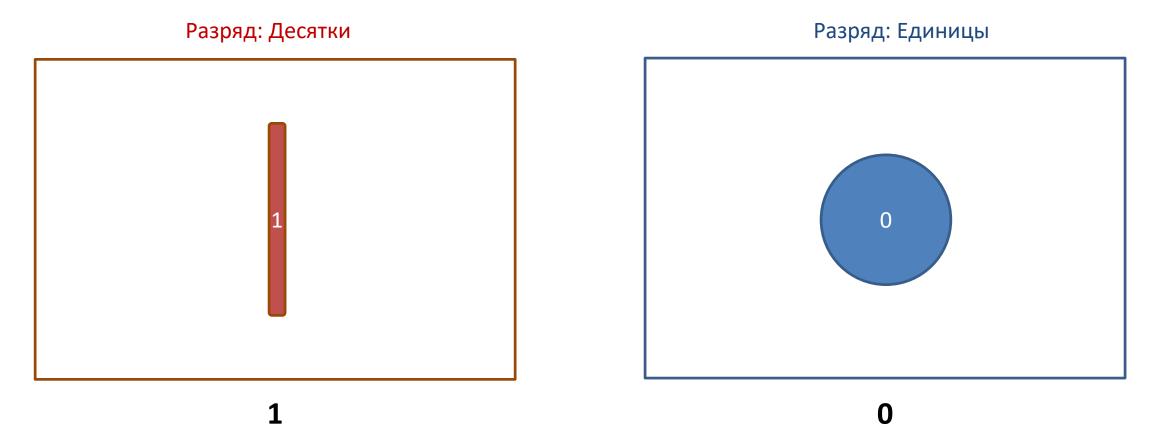




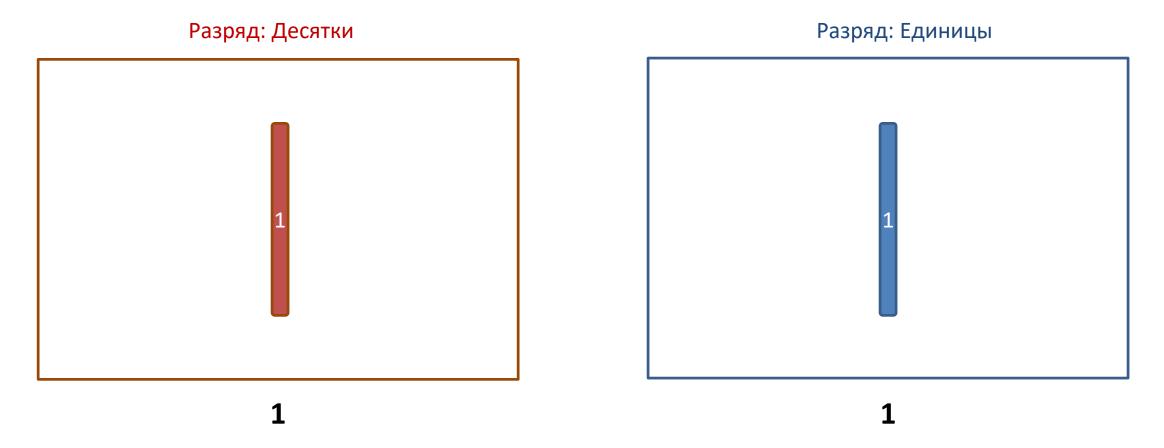






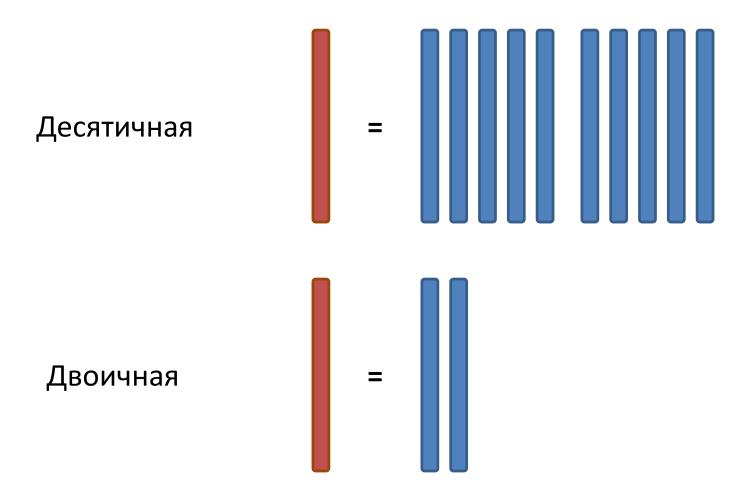








Сравнение десятичной и двоичной систем счисления

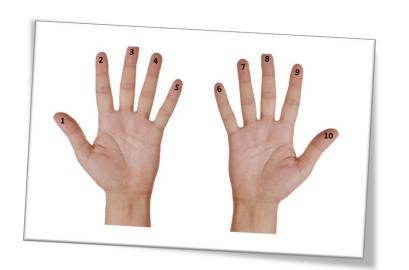




Натуральный ряд в двоичной системе счисления

```
0, 1, 10, 11, 100, 101, 110, 111, 1000, 1001, 1010, 1011, 1100, 1101, 1110, 1111, 10000, 10001, 10010, 10011, 10100, 10101, 10110, 10111, 11000, 11001, 11010, 11011, 11100, 11111, 100000, 100001, 100010, 100011, 100100, 100101, ...
```















Спасибо за внимание! До новых встреч!



Александр Шевчук





MCID: 9230440

Информационный видеоресурс для разработчиков программного обеспечения



