

Solutions

		4		4			
	3	5	2	4	1	3	3
		1	3	5	2	4	
		2	4	1	3	5	
	2	4	1	3	5	2	2
		3	5	2	4	1	

GM: 1:00; M: 1:20; E: 2:40

			3		2	3	
	3	4	5	6	1	2	2
	4	1	2	5	6	3	
	6	5	4	3	2	1	6
	1	2	3	4	5	6	
3	2	3	6	1	4	5	
	5	6	1	2	3	4	2
			4		3		

GM: 1:00; M: 1:45; E: 3:30

		2		2	2	
3	1	4	6	2	5	3
	6	3	4	5	1	2
3	2	1	5	4	3	6
	5	6	1	3	2	4
	3	5	2	6	4	1
2	4	2	3	1	6	5
	3	3	3	2		

GM: 1:45; M: 2:30; E: 5:00

		3		5		3		
		2	6	5	4	1	3	4
5		1	5	4	2	3	6	
		3	4	1	6	5	2	2
6		6	1	2	3	4	5	
		4	3	6	5	2	1	2
5		5	2	3	1	6	4	
			2		5		4	

GM: 3:45; M: 4:30; E: 9:00

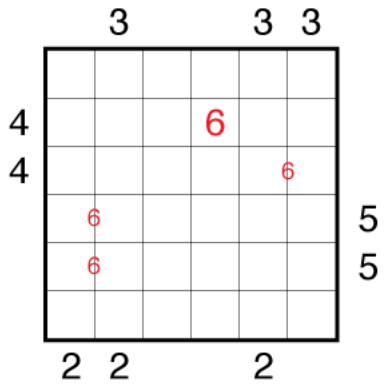
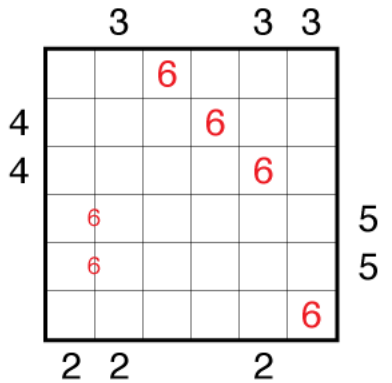
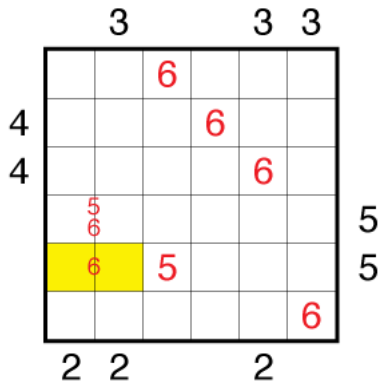
				2	3	4				
				5	6	3	4	1	2	3
				6	2	5	1	4	3	4
4				1	3	4	6	2	5	
3				3	1	2	5	6	4	
4				2	4	1	3	5	6	
3				4	5	6	2	3	1	3
				2			4	3	2	

GM: 3:45; M: 5:00; E: 10:00

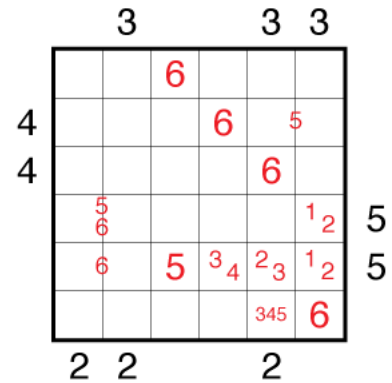
		3		3	3	
	5	4	6	2	1	3
4	1	2	3	6	4	5
4	2	3	1	5	6	4
	6	5	4	1	3	2
	3	6	5	4	2	1
	4	1	2	3	5	6
	2	2			2	

GM: 5:45; M: 8:00; E: 16:00

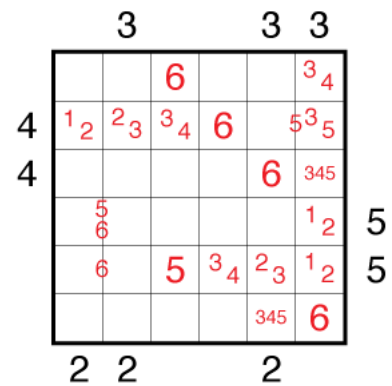
2019/07/20 – Skyscrapers Puzzle by Serkan Yürekli
Walkthrough by Thomas Snyder

<p>We start this puzzle by placing the tallest buildings. The two 5 clues place the either/or options for the 6 buildings shown in rows 4 and 5. The two 4 clues place one sure 6 in column 4 and another either/or option for the other row.</p>	 <p>A 6x6 grid with clues: top row (3, 3, 3), left row (4, 4), right row (5, 5), bottom row (2, 2, 2). Numbers placed in red: (4,4)=6, (5,5)=6, (4,2)=6, (5,2)=6.</p>
<p>The first row has only one spot left for a 6 given the top clues, which then leaves the sixth row with only one spot left for a 6 as well given the bottom clues. These are standard Skyscrapers steps and it should be fairly routine to get to here.</p>	 <p>A 6x6 grid with clues: top row (3, 3, 3), left row (4, 4), right row (5, 5), bottom row (2, 2, 2). Numbers placed in red: (1,3)=6, (2,4)=6, (3,5)=6, (4,2)=6, (5,2)=6, (6,6)=6.</p>
<p>The first trickier deduction comes from trying to place a 5 in row 5. Note that the 5 cannot go into either of the yellow cells (because in an N by N puzzle, the number N-1 can never be one space in for a “2” clue). So a 5 goes in column 3 in that row.</p>	 <p>A 6x6 grid with clues: top row (3, 3, 3), left row (4, 4), right row (5, 5), bottom row (2, 2, 2). Numbers placed in red: (1,3)=6, (2,4)=6, (3,5)=6, (4,2)=6, (5,2)=6, (6,6)=6. A 5 is placed in red at (5,3). Yellow cells are at (5,1) and (5,2).</p>

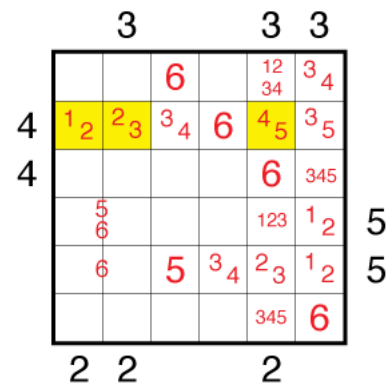
We can then place a few more notes in the grid for row 4 and 5, as well as an either/or 5 note on the right side of row 2. Note that a 12 pair is identified in column 6 as being in rows 4 and 5.



So 345 must be in the top three cells of column 6. 34 must be in the top cell, and 35 is required in the second row (you cannot fulfill the 3 clue at the top of the column if this is a 4).

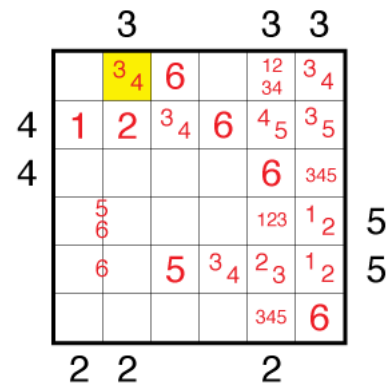


R4C5 must be no larger than a 3 to support the 5 clue on the right. This sets up the next important deduction: R2C5 cannot be smaller than 4. Why is this? Two cells in that column in rows 4 and 5 are less than or equal to 3. R1C5 is also smaller than R2C5, so if R2C5 was less than 4 there would be no place for 4 and 5 to both be in that column. So R2C5 is 45 and we can then do more in the second row.



Specifically, R2C1 = 1 and R2C2 = 2 as all other cells are 3, 4, or 5.

Now consider the top yellow cell in column 2. It must fulfill a 3 clue, so it cannot be 1. It also cannot be a 2 (already in column) or a 5 or 6. We can fill it in as either 3 or 4.



The top row now has two cells that contain 3 or 4 so these numbers cannot be anywhere else in that row.

			3		3	3	
	² ₅	³ ₄	6	¹²⁵	¹ ₂	³ ₄	
4	1	2	³ ₄	6	⁴ ₅	³ ₅	
4					6	³⁴⁵	
	⁵ ₆				¹²³	¹ ₂	5
	6	5	³ ₄	² ₃	¹ ₂		5
				³⁴⁵	6		
	2	2		2			

The last tricky step comes up in row 3. The first cell seen by the 4 clue looks like it can be a 2 or a 3 which is not that helpful. But R3C6 is a 3, 4, or 5, which means we will not see that building as it is behind the 6. We also will not see the building of height 1 in that row. So we must see everything else including the building of height 2.

			3		3	3	
	² ₅	³ ₄	6	¹²⁵	¹ ₂	³ ₄	
4	1	2	³ ₄	6	⁴ ₅	³ ₅	
4	² ₃				6	³⁴⁵	
	⁵ ₆				¹²³	¹ ₂	5
	6	5	³ ₄	² ₃	¹ ₂		5
				⁴ ₅	6		
	2	2		2			

So R3C1 is 2, and this now works with our earlier deductions in row 1 to give us a 5 in R1C1 which quickly gives us the rest of the puzzle solution from standard steps as seen in the following images, starting by filling in column 1.

			3		3	3	
	² ₅	³ ₄	6	¹²⁵	¹ ₂	³ ₄	
4	1	2	³ ₄	6	⁴ ₅	³ ₅	
4	2				6	³⁴⁵	
	⁵ ₆				¹²³	¹ ₂	5
	6	5	³ ₄	² ₃	¹ ₂		5
				⁴ ₅	6		
	2	2		2			

			3		3	3	
	5	³ ₄	6	¹ ₂	¹ ₂	³ ₄	
4	1	2	³ ₄	6	⁴ ₅	³ ₅	
4	2				6	³⁴⁵	
	6	5			¹²³	¹ ₂	5
		6	5	³ ₄	² ₃	¹ ₂	5
				⁴ ₅	6		
	2	2		2			

			3		3	3	
	5	³ ₄	6	¹ ₂	¹ ₂	³ ₄	
4	1	2	³ ₄	6	⁴ ₅	³ ₅	
4	2				6	³⁴⁵	
	6	5			¹²³	¹ ₂	5
	3	6	5	4	2	1	5
	4			⁴ ₅	6		
	2	2		2			

		3			3 3		
		5	³ ₄	6	¹ ₂	1	³ ₄
4		1	2	³ ₄	6	4	³ ₅
4		2				6	³⁴⁵
		6	5			3	2
		3	6	5	4	2	1
		4				5	6
		2	2			2	
							5
							5

		3			3 3		
		5	³ ₄	6	2	1	³ ₄
4		1	2	3	6	4	5
4		2	³ ₄	1	5	6	³ ₄
		6	5	4	1	3	2
		3	6	5	4	2	1
		4	1	2	3	5	6
		2	2			2	
							5
							5

		3			3 3		
		5	4	6	2	1	3
4		1	2	3	6	4	5
4		2	3	1	5	6	4
		6	5	4	1	3	2
		3	6	5	4	2	1
		4	1	2	3	5	6
		2	2			2	
							5
							5