

BRAIN BUSTERS

Energy Savings Logic Puzzle (Solution)

Four students have organized energy saving techniques in 4 different rooms. Each student has a different technique and a different room. Use the clues below to match the student, technique, and room.

Clue 1: Either student 3 or the energy star appliance technique are in the living room.

Clue 2: Student 2 is in the kitchen.

Clue 3: Student 4, the living room, and the energy star technique are all separate.

Clue 4: LED lights are either used by student 1 or are used in the bathroom.

Clue 5: Of the programmable thermostat and the use of energy star appliances, one is in the living room and one is in the laundry room

		Students				Energy Saving Technique			
		1	2	3	4	Turn off lights	Use LED lightbulbs	Programmable Thermostats	Use Energy Star Appliances
Room	Living Room			★				★	
	Kitchen		★			★			
	Bathroom				★		★		
	Laundry Room	★							★
Energy Saving Technique	Turn off lights		★						
	Use LED Lightbulbs				★				
	Programmable Thermostats			★					
	Use Energy Star Appliances	★							

Hint: Place an X in any box that cannot be true and a star in any box that must be true. Anytime a star is placed, X's can be placed in all other boxes in that column and row.

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Example

Example 1: when a star is placed based on the clues, X's can be placed in all the other boxes in the row and column.

	I	II	III	IV	1	2	3	4
A		X						
B		X						
C	X	☆	X	X				
D		X						
1								
2								
3								
4								

Example 2: Completed puzzles should look like this.

	I	II	III	IV	1	2	3	4
A	X	X	X	☆	X	X	☆	X
B	☆	X	X	X	☆	X	X	X
C	X	☆	X	X	X	☆	X	X
D	X	X	☆	X	X	X	X	☆
1	☆	X	X	X				
2	X	☆	X	X				
3	X	X	X	☆				
4	X	X	☆	X				