

**CASE NAME: LOGIC SQUARE**  
 ATTENDING OFFICER(S): MIKE JANNEY  
 CHICAGO POLICE DEPARTMENT  
 CRIME LOCATION: LINCOLN SQUARE

**SOLVED!**



**Answer: TENSE**

To start with, note from various clues that you are dealing with a 5x5 grid. Then begin figuring out what letters you have to work with:

There are 12 letters (by 3-10 and 19):

AGIDHPRENSTO

Some are at least paired (6-10):

RENTS

There are at least 4 R's (34):

R

R

There are at least 3 E's (26, 28):

E

And therefore at least 4 E's (7):

E

There are at least 3 O's (19, 25):

O

O

There are at least 2 A's (14):

A

There are at least 2 D's (12):

D

This accounts for all 25 letters. Begin sorting them into color buckets. RENT's can be written in immediately by 6)-10):

R O Y G B

E R T R

E R R

N N E

S S E

T

It's readily apparent that (AAGI) and (DDHP) must be red and green in some order by 4) and 5), leaving only three places remaining for the three O's:

R O Y G B

O E R T R

E R R

N N E

S S E

T O O

We can now begin filling out the 5x5 grid. First start with the givens in 32) and 33):

<b>R</b>				
				<b>R</b>

From 18), 21), and 34) we can place the other two R's:

<b>R</b>				
			<b>R</b>	
	<b>R</b>			<b>R</b>

By 6) and 31) the R in the second row must be blue. The two R's in the bottom row must be blue and yellow in some order, therefore the R in the upper left must be yellow. By 30), then, the R in the lower right must be blue, and the R in the second column yellow:

<b>R</b>				
			<b>R</b>	
	<b>R</b>			<b>R</b>

By 1) we can finish identifying the blue squares. There is now only one 2x2 block that can satisfy 29), which allows us (along with 1) again) to finish identifying the yellow squares as well:

<b>R</b>				
			<b>R</b>	
	<b>R</b>			<b>R</b>

By 24) we can place the yellow O. The remaining two O's are blue and red, and in the left column (by 19). We can solidly place the blue O; the red one must be either in the 3<sup>rd</sup> or 5<sup>th</sup> row. Neither of these two O's can satisfy 25), however, so we must place the two E's by the O in the 2<sup>nd</sup> row. The E in the 2<sup>nd</sup> row, since it is not blue, must be orange:

R				
	E	O	R	
		E		
O				
	R			R

By 32) we can color the remaining space in the 4-colored diagonal red. The other diagonal spot in the 4<sup>th</sup> row is not red, blue, orange, or yellow; it is green. By 1) we can finish off the colors in the 2<sup>nd</sup> column and 4<sup>th</sup> row. Additionally, we have now placed four of the five blue letters, and can therefore deduce the 5<sup>th</sup>:

R	E			
	E	O	R	
		E		
O				
	R			R

There is only one spot that can satisfy 26) (since the S's are yellow and orange, and E's are blue or orange), which allows us to place the two S's. We've now placed four of the five yellow letters, and can deduce the fifth. Finally, there are only two adjacent rows that can satisfy 13) and 14) (since A's are either red or green):

R	E	A		
	E	O	R	A
		E	S	
O		S		N
	R			R

There is only one place left to place a G that satisfies 22). Since that spot is red, (AAGI) is red, and (DDHP) is green. We've now colored four of the five red spots, and can color the fifth (and place the I and O in their respective spots by 27) or 31) as well):

R	E	A		
	E	O	R	A
	G	E	S	
O		S	I	N
O	R			R

We can finish out the coloring fairly easily Sudoku-style by 1). We can also place the T from 31) and the H from 23):

R	E	A		T
H	E	O	R	A
	G	E	S	
O		S	I	N
O	R			R

By 16) we can place the D in the 4<sup>th</sup> column. By 11) and 12), the other D must be in the 3<sup>rd</sup> column. By 21) we can place the P and the remaining T. Similarly by 21) we can place the last E and N:

R	E	A	D	T
H	E	O	R	A
N	G	E	S	P
O	T	S	I	N
O	R	D	E	R

Giving us our final message, "READ THE ORANGE SPOTS IN ORDER". Doing so (either in order from top to bottom, or in the order that the orange letters appear in the message) yields the correct final answer, TENSE.