Solution:

Step	C10	C100	C1000	F	T	W	O	U	R
Initial setup Range	0, 1	0, 1	0, 1	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9
C1000 1 Order: (1,0)	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C100 1 Order: (1,0)	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C10 1 Order: (1,0)	1	1	1	1	7,8,9	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
T 8 Order: (8,9,7)	1	1	1	1	8	5,6,9	7	0,2,3,5,6,9	4
W 6 Order: (6,5,9)	1	1	1	1	8	6	7	3	4

Explanation:

First I write down the constrains

$$
\begin{cases}
20 = R + 10 \cdot C_{10} \\
2W + C_{10} = U + 10 \cdot C_{100} \\
2T + C_{100} = O + 10 \cdot C_{1000} \\
C_{1000} = F \\
T, W, O, U, R \text{ satisfy Range Table \& They are not equal to each other} \\
C_{10}, C_{100}, C_{1000} \in \{0, 1\}
\end{cases}
$$

Then at each row. Pick a variable & value.

	Step	C10	C100	C1000	F	T	W	O	U	R
①	Initial setup Range	0, 1	0, 1	0, 1	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9
②	C1000 1 Order: (1,0)	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
③	C100 1 Order: (1,0)	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
④	C10 1 Order: (1,0)	1	1	1	1	7,8,9	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
⑤	T 8 Order: (8,9,7)	1	1	1	1	8	5,6,9	7	0,2,3,5,6,9	4
⑥	W 6 Order: (6,5,9)	1	1	1	1	8	6	7	3	4

At row ①: $|C_{10}| = |C_{100}| = |C_{1000}| = 2$, I choose C_{1000}.

when $C_{1000} = 0$,

$$\begin{cases} 20 = R + 10 \cdot C_{10} \\ 2W + C_{10} = U + 10 \cdot C_{100} \\ 2T + C_{100} = O + \cancel{10 \cdot C_{1000}}^{0} \Rightarrow 2T = O - C_{100} \Rightarrow 2T \le 9 \Rightarrow T \le 4 \\ \cancel{C_{1000}}^{0} = F \Rightarrow F = 0 \\ T, W, O, U, R \text{ satisfy Range Table \& They are not equal to each other} \\ C_{10}, C_{100} \in \{0, 1\} \end{cases}$$

The domain chart will be

Step	C10	C100	C1000	F	T	W	O	U	R
if C1000=0	0,1	0,1	0	Null	1,2,3,4	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9

See next page for $C_{1000} = 1$.

Step	C10	C100	C1000	F	T	W	O	U	R
Initial setup Range	0, 1	0, 1	0, 1	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9
C1000 1 Order: (1,0)	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C100 1 Order: (1,0)	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C10 1 Order: (1,0)	1	1	1	1	7,8,9	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
T 8 Order: (8,9,7)	1	1	1	1	8	5,6,9	7	0,2,3,5,6,9	4
W 6 Order: (6,5,9)	1	1	1	1	8	6	7	3	4

when $C_{1000}=1$,

$$\begin{cases} 2O = R + 10\cdot C_{10} \\ 2W + C_{10} = U + 10\cdot C_{100} \\ 2T + C_{100} = O + 10\cdot \cancel{C_{1000}}^{1} \Rightarrow 2T = 10 + O - C_{100} \Rightarrow 2T \geq 9 \Rightarrow T \geq 5 \\ \cancel{C_{1000}}^{1} = F \Rightarrow F = 1 \\ T, W, O, U, R \text{ satisfy Range Table \& They are not equal to each other} \\ C_{10},\ C_{100} \in \{0, 1\} \end{cases}$$

The domain chart will be

Step	C10	C100	C1000	F	T	W	O	U	R
if C1000=1	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9

Easy to see $C_{1000}=1$ is least-restraing

So the least constrain order for C_{1000} is (1, 0), pick $C_{1000}=1$

	Step	C10	C100	C1000	F	T	W	O	U	R
①	Initial setup Range	0, 1	0, 1	0, 1	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9
②	C1000 1 Order: (1,0)	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
③	C100 1 Order: (1,0)	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
④	C10 1 Order: (1,0)	1	1	1	1	7,8,9	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
⑤	T 8 Order: (8,9,7)	1	1	1	1	8	5,6,9	7	0,2,3,5,6,9	4
⑥	W 6 Order: (6,5,9)	1	1	1	1	8	6	7	3	4

At row ②

$|C_{10}| = |C_{100}| = 2$, I choose C_{100}

when $C_{100} = 0$,

$$\begin{cases} 20 = R + 10 \cdot C_0 \\ 2W + C_0 = U + \cancel{10 \cdot C_{100}}^{0} \Rightarrow 2W = U - C_0 \Rightarrow 2W \le 9 \Rightarrow W \le 4 \\ 2T + \cancel{C_{100}}^{0} = O + 10 \Rightarrow 2T \ge 10 \Rightarrow T \ge 5 \\ 1 = F \\ T, W, O, U, R \text{ satisfy Range Table \& They are not equal to each other} \\ C_0 \in \{0, 1\} \end{cases}$$

The domain chart will be

Step	C10	C100	C1000	F	T	W	O	U	R
if C1000=1	0,1	0	1	1	5,6,7,8,9	0,2,3,4	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9

Step	C10	C100	C1000	F	T	W	O	U	R
Initial setup Range	0, 1	0, 1	0, 1	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9
C1000 1 Order: (1,0)	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C100 1 Order: (1,0)	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C10 1 Order: (1,0)	1	1	1	1	7,8,9	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
T 8 Order: (8,9,7)	1	1	1	1	8	5,6,9	7	0,2,3,5,6,9	4
W 6 Order: (6,5,9)	1	1	1	1	8	6	7	3	4

when $C_{100}=1$

$$\begin{cases} 20 = R + 10 \cdot C_0 \\ 2W + C_0 = U + \cancel{10 \times C_{100}} \quad \Rightarrow 2W = 10 + U - C_0 \Rightarrow 2W \geq 9 \Rightarrow W \geq 5 \\ 2T + \cancel{C_{100}^{1}} = O + 10 \quad \Rightarrow 2T \geq 9 \Rightarrow T \geq 5 \\ 1 = F \\ T, W, O, U, R \text{ satisfy Range Table \& They are not equal to each other} \\ C_0 \in \{0, 1\} \end{cases}$$

The domain chart will be

Step	C10	C100	C1000	F	T	W	O	U	R
if C1000=1	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9

Easy to see when $C_{100}=1$, $|W|=5$

$C_{100}=0$, $|W|=4$

Thus pick $C_{100}=1$.

Step	C10	C100	C1000	F	T	W	O	U	R
Initial setup Range	0, 1	0, 1	0, 1	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9	0,1,2,3,4,5,6,7,8,9
C1000 1 Order: (1,0)	0,1	0,1	1	1	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C100 1 Order: (1,0)	0,1	1	1	1	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
C10 1 Order: (1,0)	1	1	1	1	7,8,9	5,6,7,8,9	5,6,7,8,9	0,2,3,4,5,6,7,8,9	0,2,3,4,5,6,7,8,9
T 8 Order: (8,9,7)	1	1	1	1	8	5,6,9	7	0,2,3,5,6,9	4
W 6 Order: (6,5,9)	1	1	1	1	8	6	7	3	4

Do the same for rest rows, And we found a solution.

check

$$\begin{array}{r} 867 \\ +\ 867 \\ \hline 1734 \end{array}$$

✓