

# Heaven and Earth Designs

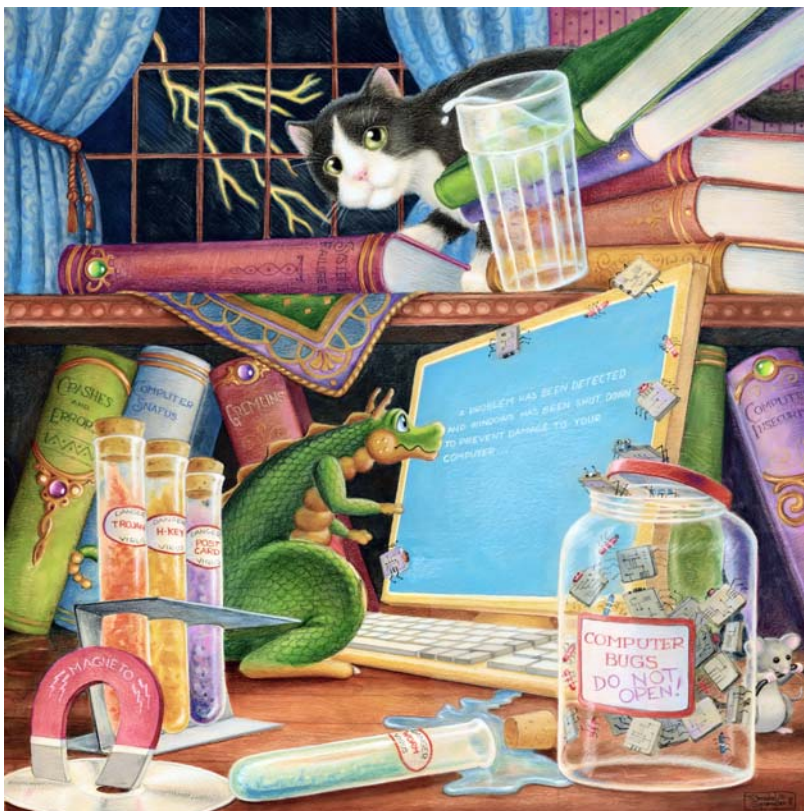
## Computer Catastrophes

(Large Format)

Chart No: HAERAS 143

Chart Design By Michele Sayetta

Artwork by Randal Spangler



Finished Design Size 450 W by 448 H (18 WX 17-1/8 inches on 25ct)  
(This Chart Contains 87 Colors)

Heaven and Earth Designs LLC

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## Instructions

Congratulations on buying a **Heaven and Earth Designs LLC** Cross Stitch Chart .

We know it will bring you many hours of pleasurable stitching and believe the final result will be something to love and admire forever.

Included with your chart is a clear plastic bag to protect your chart, and a coded thread list for the threads you will need to complete your project. Our charts are designed to use DMC stranded cotton threads and, where appropriate, Kreinik metallic thread.

### Chart Instructions:

1. This chart is made up of several numbered pages beginning at the top left corner of the first page. The pages of chart are laid out from left to right in rows e.g. 1 2 3 4, 5 6 7 8. Although each chart is marked with arrows which indicate the centre , we believe you will find it easier to begin from the top left corner of page 1 and follow the chart page by page to the bottom right corner of the last page.
2. We recommend you stitch your design on either 18 count Aida or 25 count Linen. using 2 strands of cotton over one in each case.
3. At the top of the thread list you will find our recommendation for the fabric colour. We recommend purchasing a piece of fabric that equates to the design size plus 3 inches [75mm] all around, to allow for framing and matting.
4. Because of the large number of stitches, we have found it to be easier if you stitch one 10X10 grid at a time and then continue on to the next 10 x 10 grid.
5. Stitch each page until it is completed and then move on to the next. On each page there is a number at the top left that indicates the page number. On each corner is a number in parenthesis that indicates the connecting page, unless there is not one.
6. Under International Copyright Laws, you may copy the chart for your own use. We recommend that you use a copy as your working document. You may also wish to enlarge the pages to make the symbols easier to read.

**If you have any questions regarding this chart please feel free to contact us.**

Heaven and Earth Designs LLC

320-214-7998

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**Pattern Name:** Computer Catastrophes-Spangler

**Designed By:** Michele Sayetta

































**Company:** Heaven and Earth Designs LLC











































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**Fabric:** Linen 25, White  
450w X 448h Stitches

**Size:** 25 Count, 18w X 17-7/8h in

### Floss Used for Full Stitches:

Symbol	Strands	Type	Number	Color
	z	2	DMC 032	Kreinik #4
	(	2	DMC 152	Shell Pink-MD LT
	6	2	DMC 155	Blue Violet-MD DK
	9	2	DMC 158	Cornflower Blue-MD VY DK
	u	2	DMC 159	Gray Blue-LT
	v	2	DMC 160	Gray Blue-MD
	♡	2	DMC 169	Pewter-LT
	■	2	DMC 225	Shell Pink-LT VY LT
	⊕	2	DMC 310	Black
	♦♦	2	DMC 347	Salmon-VY DK
	□	2	DMC 355	Terra Cotta-DK
	//	2	DMC 372	Mustard-LT
	a	2	DMC 402	Mahogany-VY LT
	x	2	DMC 413	Pewter Gray-DK
	▲	2	DMC 435	Brown-VY LT
	o	2	DMC 436	Tan
	●	2	DMC 453	Shell Gray-LT
	✦	2	DMC 469	Avocado Green
	●	2	DMC 471	Avocado Green-VY LT
	⊕	2	DMC 517	Wedgewood-DK
	⊗	2	DMC 519	Sky Blue
	⊗	2	DMC 524	Fern Green-VY LT
	3	2	DMC 554	Violet-LT
	■	2	DMC 581	Moss Green
	/	2	DMC 601	Cranberry-DK
	△	2	DMC 647	Beaver Gray-MD
	s	2	DMC 648	Beaver Gray-LT
	⊗	2	DMC 677	Old Gold-VY LT
	≡	2	DMC 701	Christmas Green-LT
		2	DMC 703	Chartreuse
	∨	2	DMC 729	Old Gold-MD
	T	2	DMC 734	Olive Green-LT





































Symbol	Strands	Type	Number	Color
	n	2	DMC 738	Tan-VYLT
	➔	2	DMC 745	Yellow-LT Pale
	▼	2	DMC 754	Peach-LT
	⌘	2	DMC 772	Yellow Green-VYLT
	✧	2	DMC 775	Baby Blue-VYLT
	∞	2	DMC 792	Cornflower Blue-DK
	<	2	DMC 796	Royal Blue-DK
	⋅	2	DMC 798	Delft Blue-DK
	:	2	DMC 799	Delft Blue-MD
	#	2	DMC 815	Garnet-MD
	%	2	DMC 819	Baby Pink-LT
	>	2	DMC 824	Blue-VYDK
	=	2	DMC 826	Blue-MD
	♥	2	DMC 833	Golden Olive-LT
	@	2	DMC 890	Pistachio Green-ULDK
	↓	2	DMC 900	Burnt Orange-DK
	+	2	DMC 902	Garnet-VYDK
	2	2	DMC 915	Plum-DK
	1	2	DMC 917	Plum-MD
	←	2	DMC 922	Copper-LT
	✓	2	DMC 932	Antique Blue-LT
	⊙	2	DMC 936	Avocado Green-VYDK
	+	2	DMC 951	Tawny-LT
	✚	2	DMC 955	Nile Green-LT
	\$	2	DMC 961	Dusty Rose-DK
	e	2	DMC 976	Golden Brown-MD
	▣	2	DMC 3012	Khaki Green-MD
	↑	2	DMC 3042	Antique Violet-LT
	⊥	2	DMC 3072	Beaver Gray-VYLT
	∞	2	DMC 3328	Salmon-DK
	L	2	DMC 3346	Hunter Green
	..	2	DMC 3350	Dusty Rose-ULDK
	0	2	DMC 3608	Plum-VYLT
	*	2	DMC 3721	Shell Pink-DK
	)	2	DMC 3722	Shell Pink-MD
	7	2	DMC 3746	Blue Violet-DK
	5	2	DMC 3747	Blue Violet-VYLT
	▨	2	DMC 3750	Antique Blue-VYDK
	◇	2	DMC 3752	Antique Blue-VYLT
	↔	2	DMC 3761	Sky Blue-LT
	H	2	DMC 3766	Peacock Blue-LT
	^	2	DMC 3770	Tawny-VYLT











































Symbol	Strands	Type	Number	Color
 ♦	2	DMC	3776	Mahogany-LT
 ↑	2	DMC	3822	Straw-LT
 □	2	DMC	3827	Golden Brown-Pale
 ▲	2	DMC	3830	Terra Cotta-MD
 ·	2	DMC	3835	Grape-MD
 -	2	DMC	3836	Grape-LT
 c	2	DMC	3854	Autumn Gold-MD
 0	2	DMC	3856	Mahogany-ULVYLT
 ∅	2	DMC	3858	Rosewood-MD
 ·	2	DMC	3859	Rosewood-LT
 m	2	DMC	3860	Cocoa
 l	2	DMC	3861	Cocoa-LT
 7	2	DMC	3862	Mocha Beige-DK










## Usage Summary

Strands Per Skein: 6

Skein Length: 313.0 in

Type	Number	Full	Half	Quarter	Petite	Back(in)	Str(in)	Spec(in)	French	Bead	Skein Est.
 DMC 032	4751	0	0	0	0.0	0.0	0.0	0	0	2.000	
 DMC 152	2024	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 155	696	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 158	786	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 159	1191	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 160	1178	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 169	2004	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 225	2260	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 310	25822	0	0	0	0.0	0.0	0.0	0	0	8.000	
 DMC 347	437	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 355	3501	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 372	826	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 402	2112	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 413	2917	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 435	1960	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 436	2010	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 453	6455	0	0	0	0.0	0.0	0.0	0	0	2.000	
 DMC 469	2412	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 471	1590	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 517	2204	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 519	6134	0	0	0	0.0	0.0	0.0	0	0	2.000	
 DMC 524	1065	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 554	1854	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 581	925	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 601	26	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 647	947	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 648	3129	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 677	622	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 701	474	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 703	504	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 729	1166	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 734	1430	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 738	1727	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 745	706	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 754	1831	0	0	0	0.0	0.0	0.0	0	0	1.000	
 DMC 772	515	0	0	0	0.0	0.0	0.0	0	0	1.000	

Type	Number	Full	Half	Quarter	Petite	Back(in)	Str(in)	Spec(in)	French	Bead	Skein Est.
 DMC 775	775	1443	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 792	792	1388	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 796	796	456	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 798	798	376	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 799	799	1930	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 815	815	2837	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 819	819	4436	0	0	0	0.0	0.0	0.0	0	0	2.000
 DMC 824	824	1271	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 826	826	3143	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 833	833	726	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 890	890	3116	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 900	900	30	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 902	902	5158	0	0	0	0.0	0.0	0.0	0	0	2.000
 DMC 915	915	1757	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 917	917	1639	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 922	922	1968	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 932	932	2057	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 936	936	3437	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 951	951	2891	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 955	955	272	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 961	961	2327	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 976	976	35	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3012	3012	1150	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3042	3042	1689	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3072	3072	5854	0	0	0	0.0	0.0	0.0	0	0	2.000
 DMC 3328	3328	1858	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3346	3346	2941	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3350	3350	937	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3608	3608	370	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3721	3721	2508	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3722	3722	3115	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3746	3746	549	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3747	3747	936	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3750	3750	3049	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3752	3752	1947	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3761	3761	2269	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3766	3766	9526	0	0	0	0.0	0.0	0.0	0	0	3.000
 DMC 3770	3770	5398	0	0	0	0.0	0.0	0.0	0	0	2.000
 DMC 3776	3776	1998	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3822	3822	1312	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3827	3827	1176	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC 3830	3830	4081	0	0	0	0.0	0.0	0.0	0	0	2.000

Type	Number	Full	Half	Quarter	Petite	Back(in)	Str(in)	Spec(in)	French	Bead	Skein Est.
 DMC	3835	1359	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3836	1277	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3854	1040	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3856	2525	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3858	1942	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3859	3950	0	0	0	0.0	0.0	0.0	0	0	2.000
 DMC	3860	1986	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3861	1281	0	0	0	0.0	0.0	0.0	0	0	1.000
 DMC	3862	693	0	0	0	0.0	0.0	0.0	0	0	1.000



	10	20	30	40	50	60
10	...	...	...	...	...	...
20	...	...	...	...	...	...
30	...	...	...	...	...	...
40	...	...	...	...	...	...
50	...	...	...	...	...	...
60	...	...	...	...	...	...
70	...	...	...	...	...	...
80	...	...	...	...	...	...

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	130	140	150	160	170	180
10						
20						
30						
40						
50						
60						
70						
80						

	190	200	210	220	230	240	250
10	⊗	⊗	⊗	⊗	⊗	⊗	⊗
20	⊗	⊗	⊗	⊗	⊗	⊗	⊗
30	⊗	⊗	⊗	⊗	⊗	⊗	⊗
40	⊗	⊗	⊗	⊗	⊗	⊗	⊗
50	⊗	⊗	⊗	⊗	⊗	⊗	⊗
60	⊗	⊗	⊗	⊗	⊗	⊗	⊗
70	⊗	⊗	⊗	⊗	⊗	⊗	⊗
80	⊗	⊗	⊗	⊗	⊗	⊗	⊗

(14)

	310	320	330	340	350	360	370
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35	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1
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39	1	1	1	1	1	1	1
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75	1	1	1	1	1	1	1
76	1	1	1	1	1	1	1
77	1	1	1	1	1	1	1
78	1	1	1	1	1	1	1
79	1	1	1	1	1	1	1
80	1	1	1	1	1	1	1

	380	390	400	410	420	430
10						
20						
30						
40						
50						
60						
70						
80						

(16)



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	130																140																150																160																170																180															
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100																																																																																																
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120																																																																																																
130																																																																																																
140																																																																																																
150																																																																																																

[illegible]

	250	260	270	280	290	300	310
80	+	+	+	+	+	+	+
90	+	+	+	+	+	+	+
100	+	+	+	+	+	+	+
110	+	+	+	+	+	+	+
120	+	+	+	+	+	+	+
130	+	+	+	+	+	+	+
140	+	+	+	+	+	+	+
150	+	+	+	+	+	+	+

	310	320	330	340	350	360	370
80	80	80	80	80	80	80	80
90	90	90	90	90	90	90	90
100	100	100	100	100	100	100	100
110	110	110	110	110	110	110	110
120	120	120	120	120	120	120	120
130	130	130	130	130	130	130	130
140	140	140	140	140	140	140	140
150	150	150	150	150	150	150	150

$$(23) \quad \mathcal{H}^1(\mathcal{O}_X) = 0 \quad (24)$$



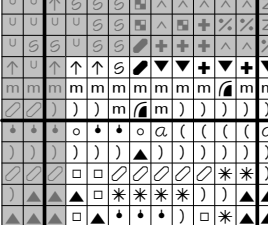
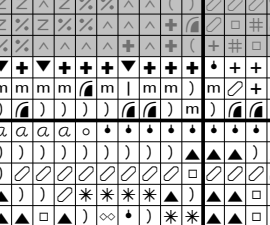
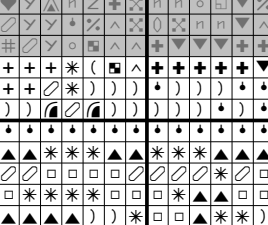
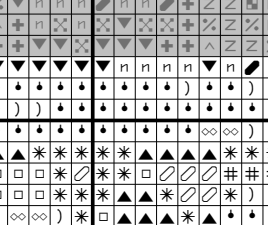
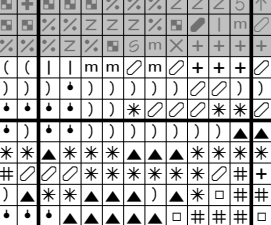
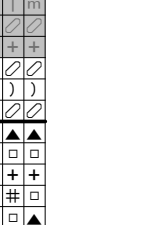
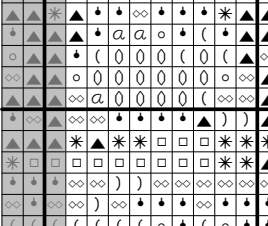
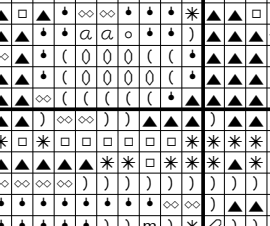
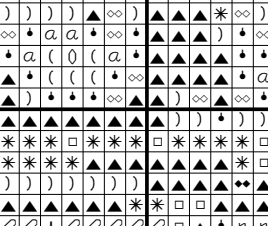
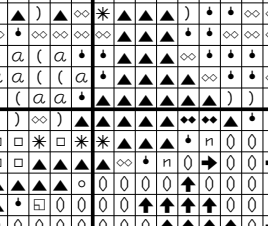
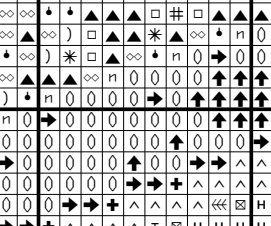
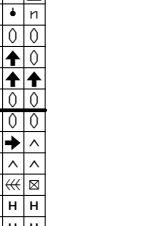
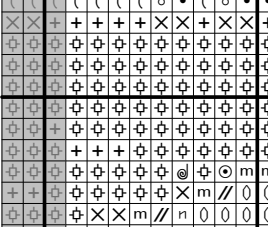
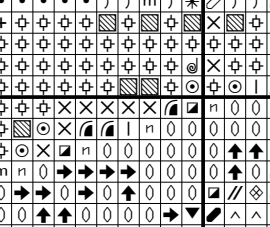
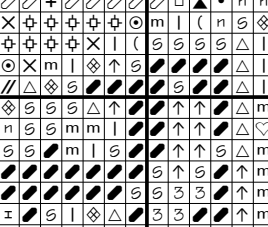
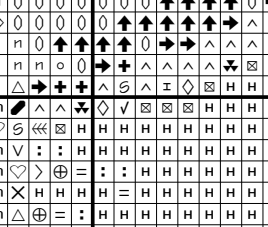
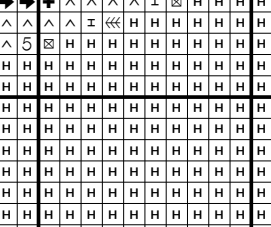
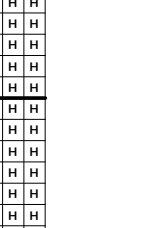
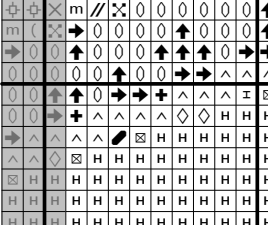
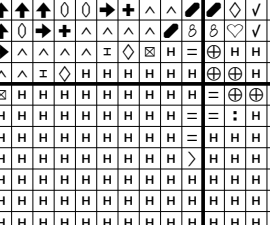
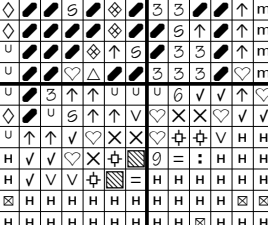
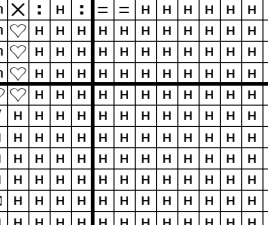
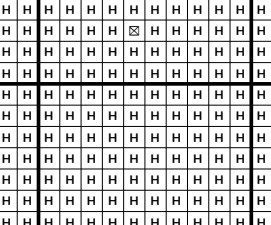
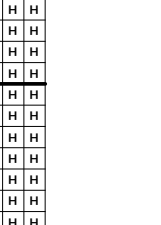
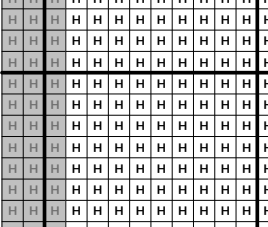
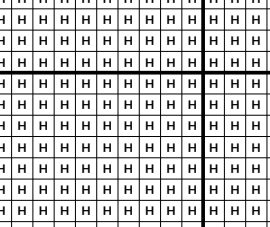
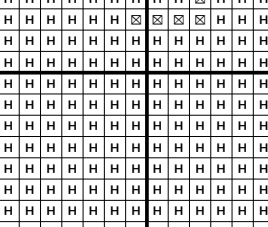
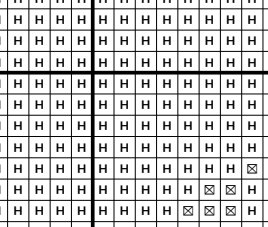
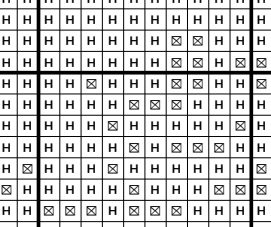
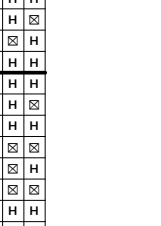
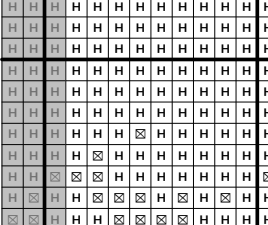
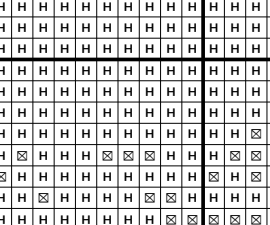
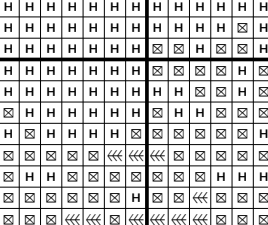
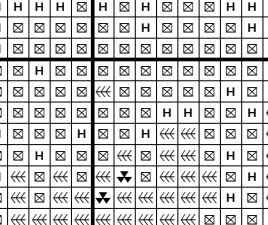
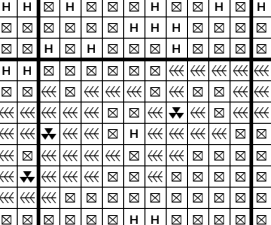
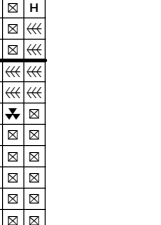
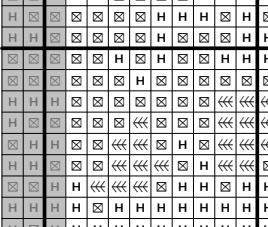
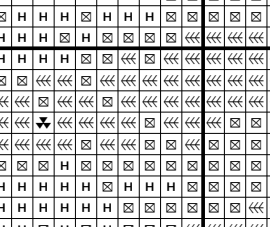
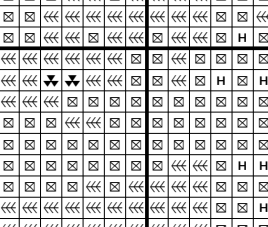
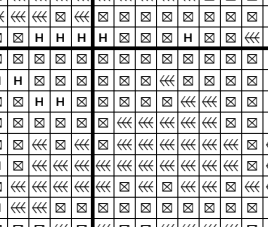
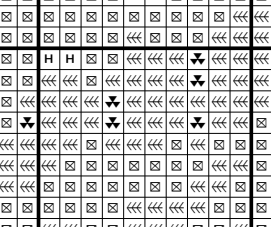
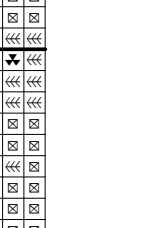
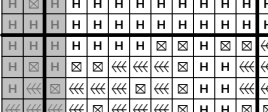
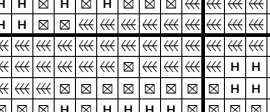
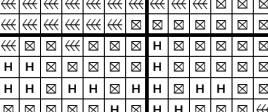
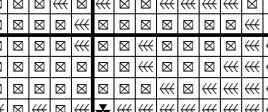
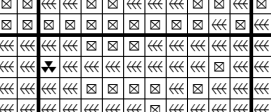





(27)

[illegible]

[illegible]

	250	260	270	280	290	300	310
160							
170							
180							
190							
200							
210							
220							
230							

	310	320	330	340	350	360	370
160	↑	↑	↑	↑	↑	↑	↑
170	↑	↑	↑	↑	↑	↑	↑
180	↑	↑	↑	↑	↑	↑	↑
190	↑	↑	↑	↑	↑	↑	↑
200	↑	↑	↑	↑	↑	↑	↑
210	↑	↑	↑	↑	↑	↑	↑
220	↑	↑	↑	↑	↑	↑	↑
230	↑	↑	↑	↑	↑	↑	↑

The image displays a large grid of 160 rows and 430 columns. The grid is organized into 10 groups of 16 rows each, with row numbers 160, 170, 180, 190, 200, 210, 220, and 230 (representing the start of a group) indicated on the left. Column numbers 380, 390, 400, 410, 420, and 430 are indicated at the top. The grid contains a complex pattern of symbols, including arrows, numbers, and geometric shapes, arranged in a way that suggests a mathematical or logical structure. The symbols are primarily black and white, with some gray shading in the background of certain cells. The pattern appears to be a complex arrangement of these symbols, possibly representing a data set or a logical structure.

[illegible]



	10	20	30	40	50	60
240	+	+	+	+	+	+
241	+	+	+	+	+	+
242	+	+	+	+	+	+
243	+	+	+	+	+	+
244	+	+	+	+	+	+
245	+	+	+	+	+	+
246	+	+	+	+	+	+
247	+	+	+	+	+	+
248	+	+	+	+	+	+
249	+	+	+	+	+	+
250	+	+	+	+	+	+
251	+	+	+	+	+	+
252	+	+	+	+	+	+
253	+	+	+	+	+	+
254	+	+	+	+	+	+
255	+	+	+	+	+	+
256	+	+	+	+	+	+
257	+	+	+	+	+	+
258	+	+	+	+	+	+
259	+	+	+	+	+	+
260	+	+	+	+	+	+
261	+	+	+	+	+	+
262	+	+	+	+	+	+
263	+	+	+	+	+	+
264	+	+	+	+	+	+
265	+	+	+	+	+	+
266	+	+	+	+	+	+
267	+	+	+	+	+	+
268	+	+	+	+	+	+
269	+	+	+	+	+	+
270	+	+	+	+	+	+
271	+	+	+	+	+	+
272	+	+	+	+	+	+
273	+	+	+	+	+	+
274	+	+	+	+	+	+
275	+	+	+	+	+	+
276	+	+	+	+	+	+
277	+	+	+	+	+	+
278	+	+	+	+	+	+
279	+	+	+	+	+	+
280	+	+	+	+	+	+
281	+	+	+	+	+	+
282	+	+	+	+	+	+
283	+	+	+	+	+	+
284	+	+	+	+	+	+
285	+	+	+	+	+	+
286	+	+	+	+	+	+
287	+	+	+	+	+	+
288	+	+	+	+	+	+
289	+	+	+	+	+	+
290	+	+	+	+	+	+
291	+	+	+	+	+	+
292	+	+	+	+	+	+
293	+	+	+	+	+	+
294	+	+	+	+	+	+
295	+	+	+	+	+	+
296	+	+	+	+	+	+
297	+	+	+	+	+	+
298	+	+	+	+	+	+
299	+	+	+	+	+	+
300	+	+	+	+	+	+
301	+	+	+	+	+	+
302	+	+	+	+	+	+
303	+	+	+	+	+	+
304	+	+	+	+	+	+
305	+	+	+	+	+	+
306	+	+	+	+	+	+
307	+	+	+	+	+	+
308	+	+	+	+	+	+
309	+	+	+	+	+	+
310	+	+	+	+	+	+

(35)

	130	140	150	160	170	180
240	+	+	+	+	+	+
250	+	+	+	+	+	+
260	+	+	+	+	+	+
270	+	+	+	+	+	+
280	+	+	+	+	+	+
290	+	+	+	+	+	+
300	+	+	+	+	+	+
310	+	+	+	+	+	+

(37)

$$(37) \quad \dots \quad (38)$$

(39)

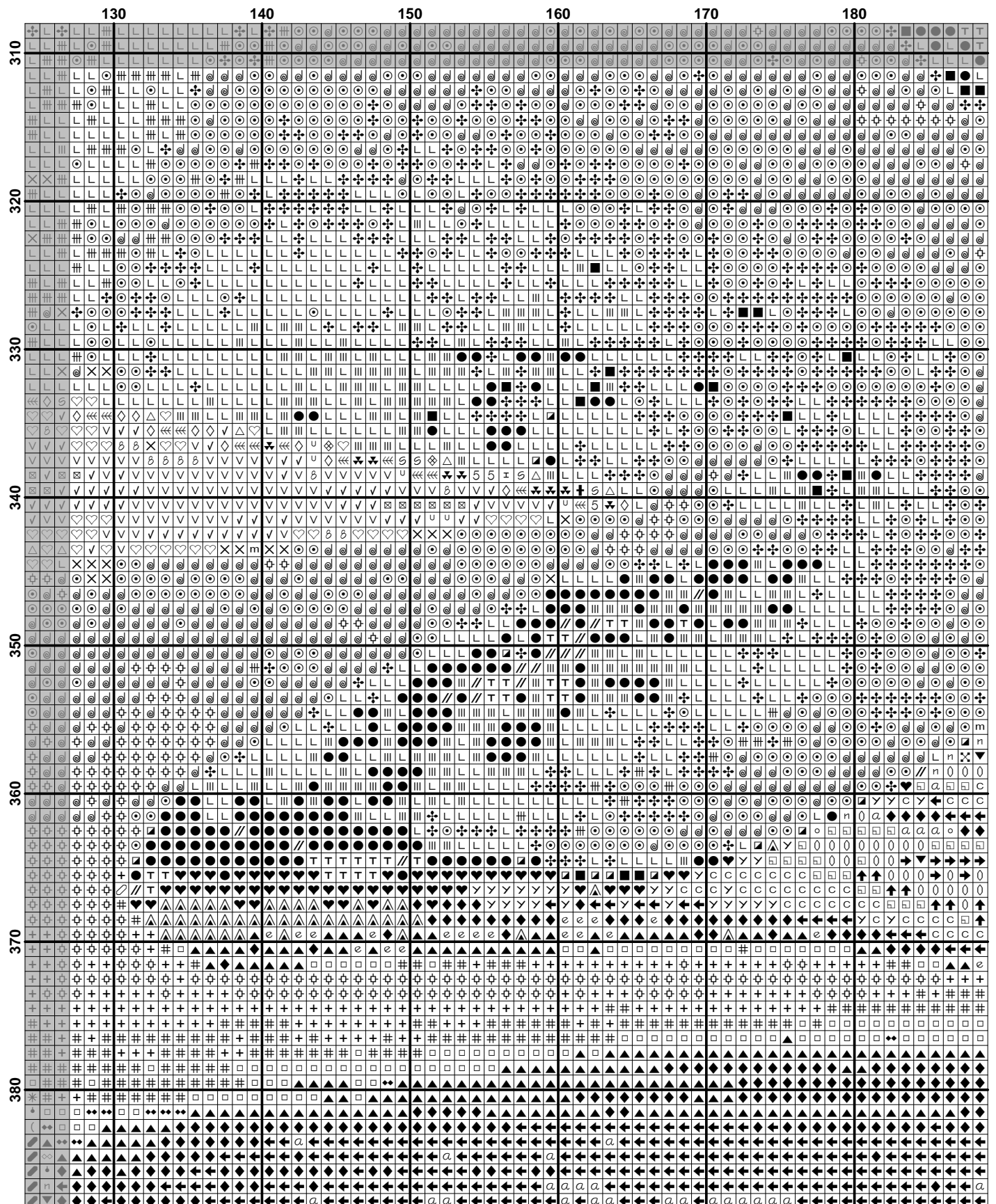
	380	390	400	410	420	430
240	...	...	...	...	...	...
250	...	...	...	...	...	...
260	...	...	...	...	...	...
270	...	...	...	...	...	...
280	...	...	...	...	...	...
290	...	...	...	...	...	...
300	...	...	...	...	...	...
310	...	...	...	...	...	...

[illegible]



	10	20	30	40	50	60
310	■	■	■	■	■	■
320	■	■	■	■	■	■
330	■	■	■	■	■	■
340	■	■	■	■	■	■
350	■	■	■	■	■	■
360	■	■	■	■	■	■
370	■	■	■	■	■	■
380	■	■	■	■	■	■

[illegible]



	190	200	210	220	230	240	250
310							
320							
330							
340							
350							
360							
370							
380							

(46)

	310	320	330	340	350	360	370
310	z	z	z	z	z	z	z
320	z	z	z	z	z	z	z
330	z	z	z	z	z	z	z
340	z	z	z	z	z	z	z
350	z	z	z	z	z	z	z
360	z	z	z	z	z	z	z
370	z	z	z	z	z	z	z
380	z	z	z	z	z	z	z
390	z	z	z	z	z	z	z
400	z	z	z	z	z	z	z
410	z	z	z	z	z	z	z
420	z	z	z	z	z	z	z
430	z	z	z	z	z	z	z
440	z	z	z	z	z	z	z
450	z	z	z	z	z	z	z
460	z	z	z	z	z	z	z
470	z	z	z	z	z	z	z
480	z	z	z	z	z	z	z
490	z	z	z	z	z	z	z
500	z	z	z	z	z	z	z
510	z	z	z	z	z	z	z
520	z	z	z	z	z	z	z
530	z	z	z	z	z	z	z
540	z	z	z	z	z	z	z
550	z	z	z	z	z	z	z
560	z	z	z	z	z	z	z
570	z	z	z	z	z	z	z
580	z	z	z	z	z	z	z
590	z	z	z	z	z	z	z
600	z	z	z	z	z	z	z
610	z	z	z	z	z	z	z
620	z	z	z	z	z	z	z
630	z	z	z	z	z	z	z
640	z	z	z	z	z	z	z
650	z	z	z	z	z	z	z
660	z	z	z	z	z	z	z
670	z	z	z	z	z	z	z
680	z	z	z	z	z	z	z
690	z	z	z	z	z	z	z
700	z	z	z	z	z	z	z
710	z	z	z	z	z	z	z
720	z	z	z	z	z	z	z
730	z	z	z	z	z	z	z
740	z	z	z	z	z	z	z
750	z	z	z	z	z	z	z
760	z	z	z	z	z	z	z
770	z	z	z	z	z	z	z
780	z	z	z	z	z	z	z
790	z	z	z	z	z	z	z
800	z	z	z	z	z	z	z
810	z	z	z	z	z	z	z
820	z	z	z	z	z	z	z
830	z	z	z	z	z	z	z
840	z	z	z	z	z	z	z
850	z	z	z	z	z	z	z
860	z	z	z	z	z	z	z
870	z	z	z	z	z	z	z
880	z	z	z	z	z	z	z
890	z	z	z	z	z	z	z
900	z	z	z	z	z	z	z
910	z	z	z	z	z	z	z
920	z	z	z	z	z	z	z
930	z	z	z	z	z	z	z
940	z	z	z	z	z	z	z
950	z	z	z	z	z	z	z
960	z	z	z	z	z	z	z
970	z	z	z	z	z	z	z
980	z	z	z	z	z	z	z
990	z	z	z	z	z	z	z
1000	z	z	z	z	z	z	z

(48)

(48)





	70	80	90	100	110	120
390	Q	Q	Q	Q	Q	Q
400	Q	Q	Q	Q	Q	Q
410	Q	Q	Q	Q	Q	Q
420	Q	Q	Q	Q	Q	Q
430	Q	Q	Q	Q	Q	Q
440	Q	Q	Q	Q	Q	Q

	130										140										150										160										170										180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
390	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	⬆	



	250	260	270	280	290	300	310
390							
400							
410							
420							
430							
440							



	380	390	400	410	420	430
390	...	...	...	...	...	...
400	...	...	...	...	...	...
410	...	...	...	...	...	...
420	...	...	...	...	...	...
430	...	...	...	...	...	...
440	...	...	...	...	...	...

[illegible]