

# Heaven and Earth Designs

## The Alchemist

(Large Format)

Chart No: HAEMYP 1245

Chart Design by Michele Sayetta

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Finished Design Size 450 W by 677 H (18 W X 27 H inches on 25ct)

(This Chart Contains 90 colors)

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### Instructions

The model for The Alchemist is recommended to be stitched over 1 on 25 count fabric but you may use any count that you are comfortable with. Please use 1 strand of floss or 2 depending on your coverage preference. Charts are recommended to be stitched from page 1 top left to the last page bottom right.

If the chart contains Kreinik 032 #4 (very fine braid) we recommend that you experiment with a couple of options. Start with 1 strand of Kreinik 032 Blending Filament with one strand of white as well as trying the Very Fine Braid to determine the look that you like most.

You may also use the tent stitch or full crosses depending on your preference.

We thank you for purchasing this design and welcome any questions or comments that you may have.

































Heaven and Earth Designs LLC





























































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**Pattern Name:** The Alchemist-Pinkney  
**Designed By:** Michele Sayetta  
**Company:** Heaven and Earth Designs LLC  
**Copyright:** 2009  
**Fabric:** Linen 25, White  
 450w X 677h Stitches  
**Size:** 25 Count, 18w X 27h in

### Floss Used for Full Stitches:

Symbol	Strands	Type	Number	Color
	1	2	DMC 158	Cornflower Blue-MD VY DK
	Δ	2	DMC 159	Gray Blue-LT
	u	2	DMC 160	Gray Blue-MD
	■	2	DMC 224	Shell Pink-VY LT
	T	2	DMC 300	Mahogany-VY DK
	◇	2	DMC 301	Mahogany-MD
	Z	2	DMC 310	Black
	3	2	DMC 312	Baby Blue-VY DK
	♡	2	DMC 318	Steel Gray-LT
	0	2	DMC 327	Violet-VY DK
	#	2	DMC 349	Coral-DK
	■	2	DMC 400	Mahogany-DK
	X	2	DMC 413	Pewter Gray-DK
	V	2	DMC 415	Pearl Gray
	e	2	DMC 434	Brown-LT
	☆	2	DMC 435	Brown-VY LT
	c	2	DMC 436	Tan
	^	2	DMC 451	Shell Gray-DK
	←	2	DMC 452	Shell Gray-MD
	¢	2	DMC 471	Avocado Green-VY LT
	\$	2	DMC 498	Christmas Red-DK
	⌘	2	DMC 524	Fern Green-VY LT
	/	2	DMC 550	Violet-VY DK
	↖	2	DMC 610	Drab Brown-DK
	⤵	2	DMC 612	Drab Brown-LT
	n	2	DMC 640	Beige Gray-VY DK
	±	2	DMC 645	Beaver Gray-VY DK
	↗	2	DMC 647	Beaver Gray-MD
	▲	2	DMC 648	Beaver Gray-LT
	√	2	DMC 677	Old Gold-VY LT
	≪	2	DMC 729	Old Gold-MD
	✚	2	DMC 730	Olive Green-VY DK

Symbol	Strands	Type	Number	Color
	◆	2	DMC 738	Tan-VYLT
	‡	2	DMC 745	Yellow-LT Pale
	✕	2	DMC 754	Peach-LT
	8	2	DMC 772	Yellow Green-VYLT
	a	2	DMC 779	Cocoa-DK
	▨	2	DMC 780	Topaz-UL VYDK
	2	2	DMC 799	Delft Blue-MD
	▼	2	DMC 801	Coffee Brown-DK
	٪	2	DMC 814	Garnet-DK
	4	2	DMC 823	Navy Blue-DK
	∞	2	DMC 833	Golden Olive-LT
	6	2	DMC 840	Beige Brown-MD
	●	2	DMC 842	Beige Brown-VYLT
	S	2	DMC 844	Beaver Brown-ULDK
	)	2	DMC 902	Garnet-VYDK
	≈	2	DMC 918	Red Copper-DK
	III	2	DMC 919	Red Copper
	L	2	DMC 920	Copper-MD
	⌘	2	DMC 921	Copper
	@	2	DMC 922	Copper-LT
	6	2	DMC 931	Antique Blue-MD
	<	2	DMC 934	Black Avocado Green
	·1·	2	DMC 936	Avocado Green-VYDK
	▲	2	DMC 938	Coffee Brown-ULDK
	5	2	DMC 939	Navy Blue-VYDK
	♥	2	DMC 976	Golden Brown-MD
	m	2	DMC 3031	Mocha Brown-VYDK
	➔	2	DMC 3064	Desert Sand
	H	2	DMC 3078	Golden Yellow-VYLT
	⚙	2	DMC 3328	Salmon-DK
	9	2	DMC 3348	Yellow Green-LT
	>	2	DMC 3364	Pine Green
	□	2	DMC 3371	Black Brown
	∞	2	DMC 3712	Salmon-MD
	(	2	DMC 3721	Shell Pink-DK
	✠	2	DMC 3740	Antique Violet-DK
	*	2	DMC 3743	Antique Violet-VYLT
	7	2	DMC 3750	Antique Blue-VYDK
	●	2	DMC 3770	Tawny-VYLT
	↓	2	DMC 3772	Desert Sand-VYDK
	⊙	2	DMC 3776	Mahogany-LT
	o	2	DMC 3787	Brown Gray-DK

Symbol	Strands	Type	Number	Color
	2	DMC	3799	Pewter Gray-VY DK
	2	DMC	3803	Mauve-MD
	2	DMC	3822	Straw-LT
	2	DMC	3827	Golden Brown-Pale
	2	DMC	3829	Old Gold-VY DK
	2	DMC	3830	Terra Cotta-MD
	2	DMC	3834	Grape-DK
	2	DMC	3835	Grape-MD
	2	DMC	3836	Grape-LT
	2	DMC	3854	Autumn Gold-MD
	2	DMC	3856	Mahogany-UL VY LT
	2	DMC	3858	Rosewood-MD
	2	DMC	3860	Cocoa
	2	DMC	3861	Cocoa-LT
	2	DMC	3862	Mocha Beige-DK
	2	DMC	3864	Mocha Beige-LT

## 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	158	24	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	159	14	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	160	78	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	224	605	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	300	7431	0	0	0	0.0	0.0	0.0	0	0	3.000
■ DMC	301	1998	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	310	110745	0	0	0	0.0	0.0	0.0	0	0	31.000
■ DMC	312	37	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	318	161	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	327	434	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	349	591	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	400	3659	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	413	547	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	415	61	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	434	1967	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	435	2167	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	436	2556	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	451	2026	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	452	1196	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	471	12	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	498	1790	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	524	796	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	550	1691	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	610	2904	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	612	4463	0	0	0	0.0	0.0	0.0	0	0	2.000
■ DMC	640	2096	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	645	1027	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	647	1312	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	648	564	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	677	885	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	729	846	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	730	188	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	738	2125	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	745	2325	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	754	2267	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	772	150	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 779	779	4068	0	0	0	0.0	0.0	0.0	0	0	2.000
■ DMC 780	780	1170	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 799	799	13	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 801	801	5009	0	0	0	0.0	0.0	0.0	0	0	2.000
■ DMC 814	814	4915	0	0	0	0.0	0.0	0.0	0	0	2.000
■ DMC 823	823	1385	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 833	833	486	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 840	840	2330	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 842	842	3184	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 844	844	1154	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 902	902	7264	0	0	0	0.0	0.0	0.0	0	0	2.000
■ DMC 918	918	2480	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 919	919	1684	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 920	920	1188	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 921	921	1413	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 922	922	1641	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 931	931	124	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 934	934	1203	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 936	936	247	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 938	938	15359	0	0	0	0.0	0.0	0.0	0	0	5.000
■ DMC 939	939	3411	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 976	976	1086	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3031	3031	3382	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3064	3064	2195	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3078	3078	2354	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3328	3328	589	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3348	3348	61	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3364	3364	99	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3371	3371	32438	0	0	0	0.0	0.0	0.0	0	0	9.000
■ DMC 3712	3712	637	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3721	3721	550	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3740	3740	923	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3743	3743	318	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3750	3750	85	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3770	3770	3429	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3772	3772	3328	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3776	3776	1373	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3787	3787	1753	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3799	3799	1941	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3803	3803	39	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3822	3822	603	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC 3827	3827	2425	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	3829	940	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3830	980	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3834	680	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3835	327	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3836	76	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3854	1434	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3856	3622	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3858	1864	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3860	2253	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3861	2338	0	0	0	0.0	0.0	0.0	0	0	1.000
■ DMC	3862	4234	0	0	0	0.0	0.0	0.0	0	0	2.000
■ DMC	3864	4828	0	0	0	0.0	0.0	0.0	0	0	2.000



	10	20	30	40	50	60
10	Z	Z	Z	Z	Z	Z
11	Z	Z	Z	Z	Z	Z
12	Z	Z	Z	Z	Z	Z
13	Z	Z	Z	Z	Z	Z
14	Z	Z	Z	Z	Z	Z
15	Z	Z	Z	Z	Z	Z
16	Z	Z	Z	Z	Z	Z
17	Z	Z	Z	Z	Z	Z
18	Z	Z	Z	Z	Z	Z
19	Z	Z	Z	Z	Z	Z
20	Z	Z	Z	Z	Z	Z
21	Z	Z	Z	Z	Z	Z
22	Z	Z	Z	Z	Z	Z
23	Z	Z	Z	Z	Z	Z
24	Z	Z	Z	Z	Z	Z
25	Z	Z	Z	Z	Z	Z
26	Z	Z	Z	Z	Z	Z
27	Z	Z	Z	Z	Z	Z
28	Z	Z	Z	Z	Z	Z
29	Z	Z	Z	Z	Z	Z
30	Z	Z	Z	Z	Z	Z
31	Z	Z	Z	Z	Z	Z
32	Z	Z	Z	Z	Z	Z
33	Z	Z	Z	Z	Z	Z
34	Z	Z	Z	Z	Z	Z
35	Z	Z	Z	Z	Z	Z
36	Z	Z	Z	Z	Z	Z
37	Z	Z	Z	Z	Z	Z
38	Z	Z	Z	Z	Z	Z
39	Z	Z	Z	Z	Z	Z
40	Z	Z	Z	Z	Z	Z
41	Z	Z	Z	Z	Z	Z
42	Z	Z	Z	Z	Z	Z
43	Z	Z	Z	Z	Z	Z
44	Z	Z	Z	Z	Z	Z
45	Z	Z	Z	Z	Z	Z
46	Z	Z	Z	Z	Z	Z
47	Z	Z	Z	Z	Z	Z
48	Z	Z	Z	Z	Z	Z
49	Z	Z	Z	Z	Z	Z
50	Z	Z	Z	Z	Z	Z
51	Z	Z	Z	Z	Z	Z
52	Z	Z	Z	Z	Z	Z
53	Z	Z	Z	Z	Z	Z
54	Z	Z	Z	Z	Z	Z
55	Z	Z	Z	Z	Z	Z
56	Z	Z	Z	Z	Z	Z
57	Z	Z	Z	Z	Z	Z
58	Z	Z	Z	Z	Z	Z
59	Z	Z	Z	Z	Z	Z
60	Z	Z	Z	Z	Z	Z
61	Z	Z	Z	Z	Z	Z
62	Z	Z	Z	Z	Z	Z
63	Z	Z	Z	Z	Z	Z
64	Z	Z	Z	Z	Z	Z
65	Z	Z	Z	Z	Z	Z
66	Z	Z	Z	Z	Z	Z
67	Z	Z	Z	Z	Z	Z
68	Z	Z	Z	Z	Z	Z
69	Z	Z	Z	Z	Z	Z
70	Z	Z	Z	Z	Z	Z
71	Z	Z	Z	Z	Z	Z
72	Z	Z	Z	Z	Z	Z
73	Z	Z	Z	Z	Z	Z
74	Z	Z	Z	Z	Z	Z
75	Z	Z	Z	Z	Z	Z
76	Z	Z	Z	Z	Z	Z
77	Z	Z	Z	Z	Z	Z
78	Z	Z	Z	Z	Z	Z
79	Z	Z	Z	Z	Z	Z
80	Z	Z	Z	Z	Z	Z

[illegible]

[illegible]

[illegible]

$$(13) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (14)$$

[illegible]

[illegible]

(16)



[illegible]

[illegible]

[illegible]

[illegible]

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

[illegible]

[illegible]

[illegible]



	10	20	30	40	50	60
160	Z	Z	Z	Z	Z	Z
161	Z	Z	Z	Z	Z	Z
162	Z	Z	Z	Z	Z	Z
163	Z	Z	Z	Z	Z	Z
164	Z	Z	Z	Z	Z	Z
165	Z	Z	Z	Z	Z	Z
166	Z	Z	Z	Z	Z	Z
167	Z	Z	Z	Z	Z	Z
168	Z	Z	Z	Z	Z	Z
169	Z	Z	Z	Z	Z	Z
170	Z	Z	Z	Z	Z	Z
171	Z	Z	Z	Z	Z	Z
172	Z	Z	Z	Z	Z	Z
173	Z	Z	Z	Z	Z	Z
174	Z	Z	Z	Z	Z	Z
175	Z	Z	Z	Z	Z	Z
176	Z	Z	Z	Z	Z	Z
177	Z	Z	Z	Z	Z	Z
178	Z	Z	Z	Z	Z	Z
179	Z	Z	Z	Z	Z	Z
180	Z	Z	Z	Z	Z	Z
181	Z	Z	Z	Z	Z	Z
182	Z	Z	Z	Z	Z	Z
183	Z	Z	Z	Z	Z	Z
184	Z	Z	Z	Z	Z	Z
185	Z	Z	Z	Z	Z	Z
186	Z	Z	Z	Z	Z	Z
187	Z	Z	Z	Z	Z	Z
188	Z	Z	Z	Z	Z	Z
189	Z	Z	Z	Z	Z	Z
190	Z	Z	Z	Z	Z	Z
191	Z	Z	Z	Z	Z	Z
192	Z	Z	Z	Z	Z	Z
193	Z	Z	Z	Z	Z	Z
194	Z	Z	Z	Z	Z	Z
195	Z	Z	Z	Z	Z	Z
196	Z	Z	Z	Z	Z	Z
197	Z	Z	Z	Z	Z	Z
198	Z	Z	Z	Z	Z	Z
199	Z	Z	Z	Z	Z	Z
200	Z	Z	Z	Z	Z	Z
201	Z	Z	Z	Z	Z	Z
202	Z	Z	Z	Z	Z	Z
203	Z	Z	Z	Z	Z	Z
204	Z	Z	Z	Z	Z	Z
205	Z	Z	Z	Z	Z	Z
206	Z	Z	Z	Z	Z	Z
207	Z	Z	Z	Z	Z	Z
208	Z	Z	Z	Z	Z	Z
209	Z	Z	Z	Z	Z	Z
210	Z	Z	Z	Z	Z	Z
211	Z	Z	Z	Z	Z	Z
212	Z	Z	Z	Z	Z	Z
213	Z	Z	Z	Z	Z	Z
214	Z	Z	Z	Z	Z	Z
215	Z	Z	Z	Z	Z	Z
216	Z	Z	Z	Z	Z	Z
217	Z	Z	Z	Z	Z	Z
218	Z	Z	Z	Z	Z	Z
219	Z	Z	Z	Z	Z	Z
220	Z	Z	Z	Z	Z	Z
221	Z	Z	Z	Z	Z	Z
222	Z	Z	Z	Z	Z	Z
223	Z	Z	Z	Z	Z	Z
224	Z	Z	Z	Z	Z	Z
225	Z	Z	Z	Z	Z	Z
226	Z	Z	Z	Z	Z	Z
227	Z	Z	Z	Z	Z	Z
228	Z	Z	Z	Z	Z	Z
229	Z	Z	Z	Z	Z	Z
230	Z	Z	Z	Z	Z	Z
231	Z	Z	Z	Z	Z	Z
232	Z	Z	Z	Z	Z	Z
233	Z	Z	Z	Z	Z	Z
234	Z	Z	Z	Z	Z	Z
235	Z	Z	Z	Z	Z	Z
236	Z	Z	Z	Z	Z	Z
237	Z	Z	Z	Z	Z	Z
238	Z	Z	Z	Z	Z	Z
239	Z	Z	Z	Z	Z	Z
240	Z	Z	Z	Z	Z	Z

	70	80	90	100	110	120
160	Z	Z	Z	Z	Z	Z
161	Z	Z	Z	Z	Z	Z
162	Z	Z	Z	Z	Z	Z
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300	Z	Z	Z	Z	Z	Z

[illegible]

[illegible]

[illegible]

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160	...	...	...	...	...	...	...
170	...	...	...	...	...	...	...
180	...	...	...	...	...	...	...
190	...	...	...	...	...	...	...
200	...	...	...	...	...	...	...
210	...	...	...	...	...	...	...
220	...	...	...	...	...	...	...
230	...	...	...	...	...	...	...

	380	390	400	410	420	430
160						
170						
180						
190						
200						
210						
220						
230						

[illegible]



[illegible]

	70	80	90	100	110	120
240	...	...	...	...	...	...
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260	...	...	...	...	...	...
270	...	...	...	...	...	...
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300	...	...	...	...	...	...
310	...	...	...	...	...	...

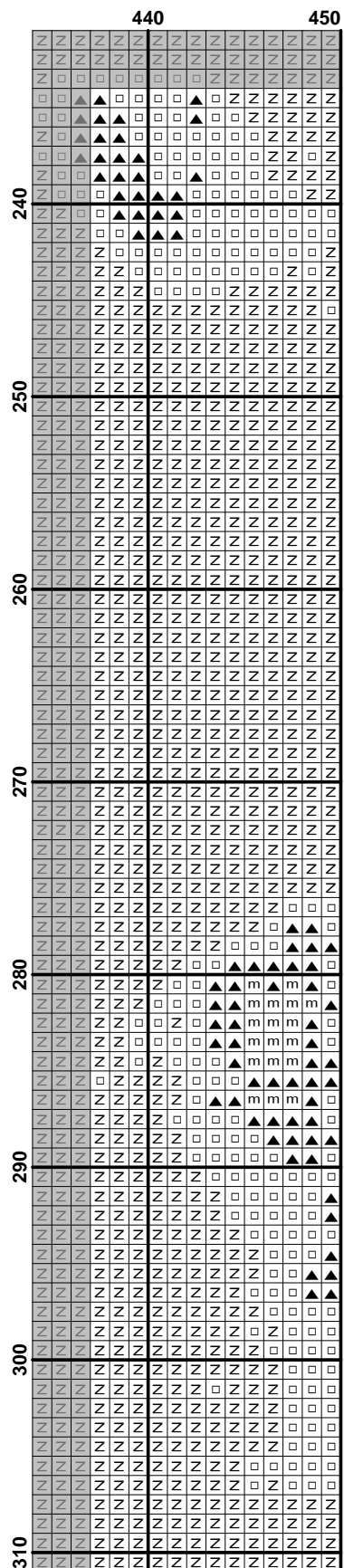
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240	...	...	...	...	...	...	...
250	...	...	...	...	...	...	...
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270	...	...	...	...	...	...	...
280	...	...	...	...	...	...	...
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300	...	...	...	...	...	...	...
310	...	...	...	...	...	...	...

	250	260	270	280	290	300	310
240							
250							
260							
270							
280							
290							
300							
310							

	310	320	330	340	350	360	370
240							
250							
260							
270							
280							
290							
300							
310							

[illegible]





[illegible]

[illegible]

	130	140	150	160	170	180
310	q	q	q	q	q	q
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340	q	q	q	q	q	q
350	q	q	q	q	q	q
360	q	q	q	q	q	q
370	q	q	q	q	q	q
380	q	q	q	q	q	q

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

	250	260	270	280	290	300	310
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

	310	320	330	340	350	360	370
310	▽	▽	▽	▽	▽	▽	▽
320	▽	▽	▽	▽	▽	▽	▽
330	▽	▽	▽	▽	▽	▽	▽
340	▽	▽	▽	▽	▽	▽	▽
350	▽	▽	▽	▽	▽	▽	▽
360	▽	▽	▽	▽	▽	▽	▽
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420	▽	▽	▽	▽	▽	▽	▽
430	▽	▽	▽	▽	▽	▽	▽
440	▽	▽	▽	▽	▽	▽	▽
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470	▽	▽	▽	▽	▽	▽	▽
480	▽	▽	▽	▽	▽	▽	▽
490	▽	▽	▽	▽	▽	▽	▽
500	▽	▽	▽	▽	▽	▽	▽
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560	▽	▽	▽	▽	▽	▽	▽
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620	▽	▽	▽	▽	▽	▽	▽
630	▽	▽	▽	▽	▽	▽	▽
640	▽	▽	▽	▽	▽	▽	▽
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720	▽	▽	▽	▽	▽	▽	▽
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740	▽	▽	▽	▽	▽	▽	▽
750	▽	▽	▽	▽	▽	▽	▽
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770	▽	▽	▽	▽	▽	▽	▽
780	▽	▽	▽	▽	▽	▽	▽
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800	▽	▽	▽	▽	▽	▽	▽
810	▽	▽	▽	▽	▽	▽	▽
820	▽	▽	▽	▽	▽	▽	▽
830	▽	▽	▽	▽	▽	▽	▽
840	▽	▽	▽	▽	▽	▽	▽
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870	▽	▽	▽	▽	▽	▽	▽
880	▽	▽	▽	▽	▽	▽	▽
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900	▽	▽	▽	▽	▽	▽	▽
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930	▽	▽	▽	▽	▽	▽	▽
940	▽	▽	▽	▽	▽	▽	▽
950	▽	▽	▽	▽	▽	▽	▽
960	▽	▽	▽	▽	▽	▽	▽
970	▽	▽	▽	▽	▽	▽	▽
980	▽	▽	▽	▽	▽	▽	▽
990	▽	▽	▽	▽	▽	▽	▽
1000	▽	▽	▽	▽	▽	▽	▽

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458	Q	Q	Q	Q	Q	Q
459	Q	Q	Q	Q	Q	Q
460	Q	Q	Q	Q	Q	Q

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390	...	...	...	...	...	...	...
400	...	...	...	...	...	...	...
410	...	...	...	...	...	...	...
420	...	...	...	...	...	...	...
430	...	...	...	...	...	...	...
440	...	...	...	...	...	...	...
450	...	...	...	...	...	...	...
460	...	...	...	...	...	...	...

	250	260	270	280	290	300	310
390	→	→	→	→	→	→	→
400	→	→	→	→	→	→	→
410	→	→	→	→	→	→	→
420	→	→	→	→	→	→	→
430	→	→	→	→	→	→	→
440	→	→	→	→	→	→	→
450	→	→	→	→	→	→	→
460	→	→	→	→	→	→	→

	310	320	330	340	350	360	370
390	...	...	...	...	...	...	...
400	...	...	...	...	...	...	...
410	...	...	...	...	...	...	...
420	...	...	...	...	...	...	...
430	...	...	...	...	...	...	...
440	...	...	...	...	...	...	...
450	...	...	...	...	...	...	...
460	...	...	...	...	...	...	...

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

[illegible]



[illegible]

	70	80	90	100	110	120
470	☆	■	■	■	■	■
480	■	■	■	■	■	■
490	■	■	■	■	■	■
500	■	■	■	■	■	■
510	■	■	■	■	■	■
520	■	■	■	■	■	■
530	■	■	■	■	■	■
540	■	■	■	■	■	■

[illegible]

	190	200	210	220	230	240	250
470	...	...	...	...	...	...	...
480	...	...	...	...	...	...	...
490	...	...	...	...	...	...	...
500	...	...	...	...	...	...	...
510	...	...	...	...	...	...	...
520	...	...	...	...	...	...	...
530	...	...	...	...	...	...	...
540	...	...	...	...	...	...	...

	250	260	270	280	290	300	310
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

[illegible]

$$(63) \quad \mathcal{H}^{\text{reg}}_{\text{reg}} = \mathcal{H}^{\text{reg}}_{\text{reg}} \quad (64)$$

[illegible]



[illegible]

	70										80										90										100										110										120																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
540	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼	▼

	130	140	150	160	170	180
540						
550						
560						
570						
580						
590						
600						
610						

	190	200	210	220	230	240	250
540							
550							
560							
570							
580							
590							
600							
610							

	250	260	270	280	290	300	310
540	▲	▲	▲	▲	▲	▲	▲
550	▲	▲	▲	▲	▲	▲	▲
560	▲	▲	▲	▲	▲	▲	▲
570	▲	▲	▲	▲	▲	▲	▲
580	▲	▲	▲	▲	▲	▲	▲
590	▲	▲	▲	▲	▲	▲	▲
600	▲	▲	▲	▲	▲	▲	▲
610	▲	▲	▲	▲	▲	▲	▲

[illegible]

	380	390	400	410	420	430
540						
550						
560						
570						
580						
590						
600						
610						





[illegible]

[illegible]

	130	140	150	160	170	180
620	T	T	T	T	T	T
630	T	T	T	T	T	T
640	T	T	T	T	T	T
650	T	T	T	T	T	T
660	T	T	T	T	T	T
670	T	T	T	T	T	T

[illegible]

	250	260	270	280	290	300	310
620	0	0	0	0	0	0	0
630	0	0	0	0	0	0	0
640	0	0	0	0	0	0	0
650	0	0	0	0	0	0	0
660	0	0	0	0	0	0	0
670	0	0	0	0	0	0	0

	310	320	330	340	350	360	370
620	↓	↓	↓	↓	↓	↓	↓
630	↑	↑	↑	↑	↑	↑	↑
640	↖	↖	↖	↖	↖	↖	↖
650	↗	↗	↗	↗	↗	↗	↗
660	↘	↘	↘	↘	↘	↘	↘
670	↙	↙	↙	↙	↙	↙	↙

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