

Mathematical Puzzle Programs



#### **Game Resources**

#### Reference Sheet

Letter	Decimal	Binary	Morse	Braille	ROT13	Letter	Decimal	Binary	Morse	Braille	ROT13
А	1	00001		• •	N	Ν	14	01110		••	А
В	2	00010		• •	0	Ο	15	01111		•	В
С	3	00011		• •	Р	Р	16	10000		•	С
D	4	00100		• • · •	Q	Q	17	10001		• •	D
Е	5	00101		• · · •	R	R	18	10010		•	Е
F	6	00110		• •	S	S	19	10011		•	F
G	7	00111		• •	Т	Т	20	10100	_	••	G
Н	8	01000		• •	U	U	21	10101		• •	Н
1	9	01001		• •	V	V	22	10110		• •	I
J	10	01010		• •	W	W	23	10111		•	J
K	11	01011		• :	X	Χ	24	11000		• •	K
L	12	01100		• •	Y	Υ	25	11001		• •	L
М	13	01101		• • • •	Z	Z	26	11010		•	М

#### Some famous numbers and formulas

 $\sqrt{2} \approx 1.414213562373095048801688724209$  Pythagorean Theorem 69807 85696 71875 37694 80731 76679 73799 07324 78462 10703 88503 87534 32764 15727

$$a^2 + b^2 = c^2$$

 $e \approx 2.71828 18284 59045 23536 02874 71352$ 66249 77572 47093 69995 95749 66967 62772 40766 30353 54759 45713 82178 52516 64274

Quadratic Formula

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

 $\pi \approx 3.14159\ 26535\ 89793\ 23846\ 26433\ 83279$ 50288 41971 69399 37510 58209 74944 59230 78164 06286 20899 86280 34825 34211 70679

Euler's Formula

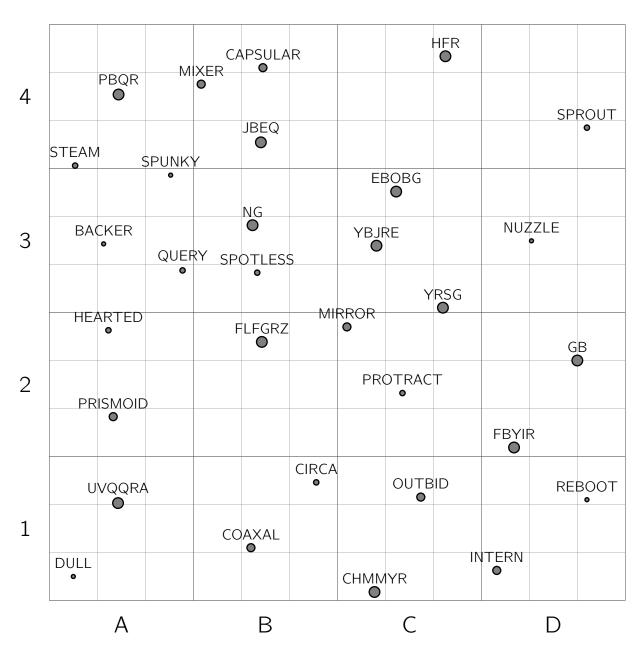
$$e^{ix} = \cos(x) + i\sin(x)$$

# MaPP

#### MaPP Challenge '19 - To Aleph-Zero And Beyond

# Where No One Has Gone Before Galaxy Chart

The smallest gridlines below measure a distance of 1000 parsecs. Each dot represents a solar system, known simply as Systems in this part of the galaxy.





# **Good News Everyone**

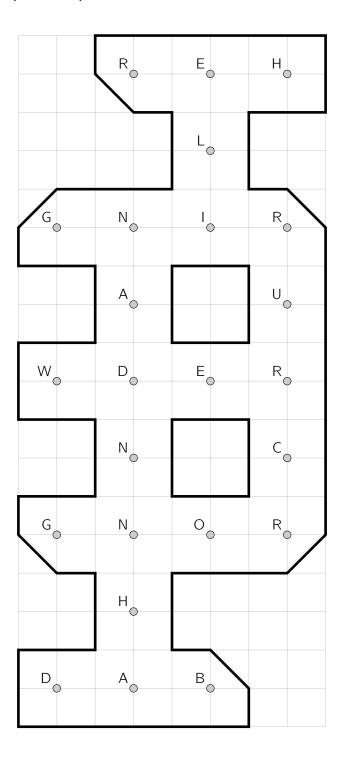
Delivery Schedule

Monday	Comet Co.		Venus Co.	Oxygen Co.	Belt Co.		Monday
Home Mednesday			Solar Co.		Helmet Co.	Alpha Co.	Wednesday Home Planet
Friday		Light Co.				Photon Co.	Friday



### **Extraterrestrial**

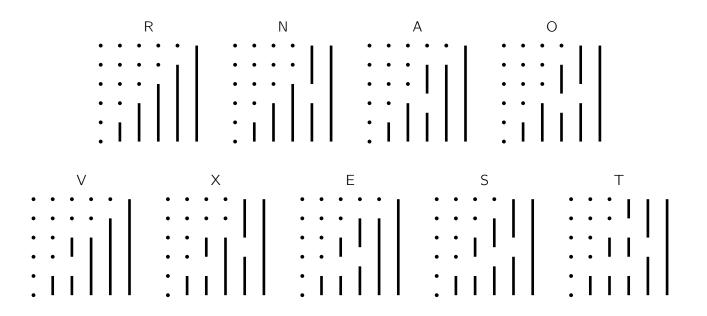
Ship Floorplan





# Wibbly-Wobbly Timey-Wimey

Dimensional Signals



02-45-49-60-67-85

11-28-38-43-72-84

14-27-31-42-62-87

04-15-37-50-73-80

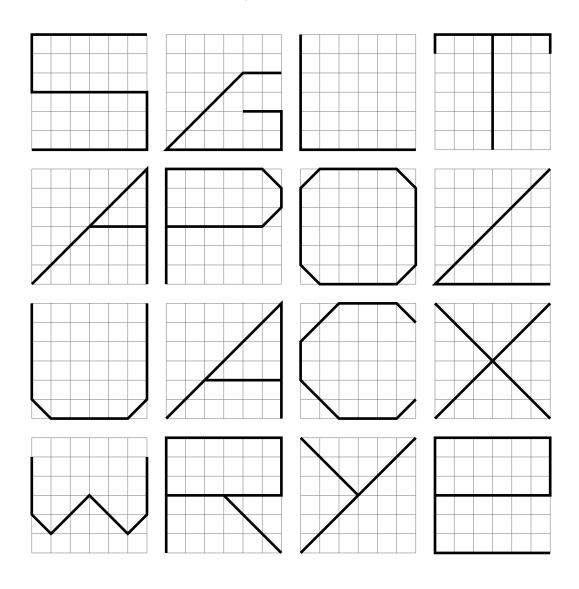
03-32-45-65-90-92

12-32-64-70-89-96



# **Jumping Through Hyperspace**

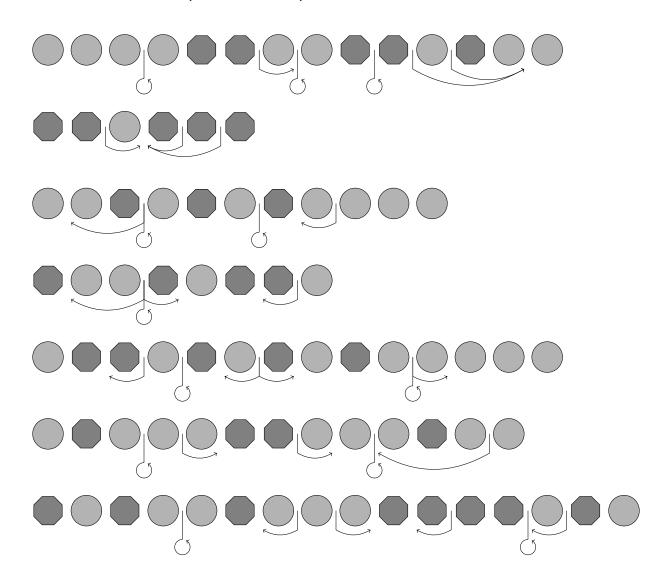
Hyperspace Engines





# **Hailing Frequencies Open**

Bleeps and Bloops





## Out of Gas

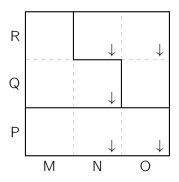
#### Reserve Tank Switchboard

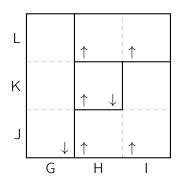
	57 M			49)		U	(51)	Н		19	
	25)	F	J	27)	G		32)	N		P (19)	
С	58 <b>K</b>			<u>L</u>			(42) O			<u>D</u>	
	26	W	Y	40	S		14)			19	
E	26		Q	42			<b>A</b> 04			(27) X	V
	<b>H</b> 30		Т	14)	В		30		R	14)	



# **Al Odyssey**

#### Cubic Monolith





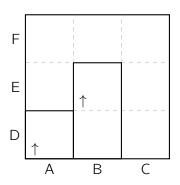
$$OQ \times CD + IL \times NP$$

$$GK \times BE + NR \times AF$$

$$GJ \times CF + BD \times NQ$$

$$HL \times AD + HJ \times MQ + OP$$

$$CD \times NR + MP \times GK + IJ$$





For a time I tried carefully to detail brographies.

Via large crawling textboxes.

Lamentably, composing all of the anestates.

when curbed by finite room, the current
strategy now is cruelly killing sound.
handwriting.

To sidestep probable oversights \
intensely loathe, l'entreat humankint.

ban laughable cuneiform!



## To the Rescue!

Enemy Insignias

