

# *hershey.mp*

version 2022/1.0

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This package can read the `jhl` format, used for the well known Hershey Fonts.  
Use it like so:

```
% Where to look for font files (this is also the default)
hersheyFonts := "/usr/share/hershey-fonts/";
% Load the font you want to use
loadHershey timesib;
% Draw a character
beginfig(1)
  drawHershey timesib(7) rotated 180 withcolor .75red;
endfig;
% Or typeset a string
beginfig(2)
  drawHershey timesib("Hello!") withcolor .75red;
endfig;
```

This results in the following pictures:



Typesetting a string will only make sense for the latin fonts, where Hershey's encoding is in ASCII order. For strings, the baseline is adjusted upward by 9 units.

Typical x-height is 14 units (of which 9 are below  $y = 0$ ), with an em-space of 21 units.

The paths that make up each character are available to you in the array `hershey.<fontname>[<charid> []`. You will rarely need this, however, since the trailing tokens to `drawHershey` will be applied to all paths.

Proof sheets of Hershey's original fonts are included in the following pages.

## **Licence**

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<https://joinup.ec.europa.eu/collection/eupl/eupl-text-eupl-12>

# times sr

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
”	.	:	F	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	`	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	gg	s	

# timesi

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
''	.	:	F	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	`	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	

# timesrb

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
“	.	:	F	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	`	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	

# timesib

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
''	.	:	F	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	`	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	

# timesg

1	13	25	37	49	61	73	85
	,	8	$\Delta$	$\Pi$	\	$\eta$	$\tau$
2	14	26	38	50	62	74	86
!	—	9	E	$\Theta$	]	$\iota$	$\upsilon$
3	15	27	39	51	63	75	87
"	.	:	$\Phi$	P	$\wedge$	$\times$	$\div$
4	16	28	40	52	64	76	88
#	/	;	$\Gamma$	$\Sigma$	_	$\kappa$	$\omega$
5	17	29	41	53	65	77	89
\$	0	<	H	T	`	$\lambda$	$\xi$
6	18	30	42	54	66	78	90
%	1	=	I	$\Upsilon$	$\alpha$	$\mu$	$\psi$
7	19	31	43	55	67	79	91
&	2	>	.	$\circ$	$\beta$	$\nu$	$\zeta$
8	20	32	44	56	68	80	92
'	3	?	K	$\Omega$	$\chi$	o	}
9	21	33	45	57	69	81	93
(	4	@	$\Lambda$	$\Xi$	$\delta$	$\pi$	
10	22	34	46	58	70	82	94
)	5	A	M	$\Psi$	$\epsilon$	$\vartheta$	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	$\varphi$	$\rho$	$\sim$
12	24	36	48	60	72	84	96
+	7	X	O	[	$\gamma$	$\sigma$	

# cyrillic

1	13	25	37	49	61	73	85
	,	8	Д	П	\	Ж	Т
2	14	26	38	50	62	74	86
!	—	9	И	Ш	Ъ	И	Ю
3	15	27	39	51	63	75	87
''	.	:	Ф	Р	Я	Ч	В
4	16	28	40	52	64	76	88
#	/	;	Г	С	Ь	К	Щ
5	17	29	41	53	65	77	89
Ы	0	<	Ж	Т	Ц	Л	Х
6	18	30	42	54	66	78	90
Ц	1	=	И	Ю	а	м	у
7	19	31	43	55	67	79	91
Ы	2	>	Ч	В	б	н	з
8	20	32	44	56	68	80	92
'	3	?	К	Щ	Э	о	е
9	21	33	45	57	69	81	93
(	4	@	Л	Х	д	п	ъ
10	22	34	46	58	70	82	94
)	5	А	М	У	й	ш	я
11	23	35	47	59	71	83	95
*	6	Б	Н	З	ф	р	ь
12	24	36	48	60	72	84	96
+	7	Э	О	Е	Г	С	~

# gothiceng

1	13	25	37	49	61	73	85
	,	B	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	G	E	Q	]	i	u
3	15	27	39	51	63	75	87
"	.	:	F	R	^	j	u
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	o	<	H	T	'	l	x
6	18	30	42	54	66	78	90
%	l	=	J	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	H	b	n	z
8	20	32	44	56	68	80	92
'	3	?	R	W	r	o	}
9	21	33	45	57	69	81	93
(	4	@	H	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	H	e	q	}
11	23	35	47	59	71	83	95
*	G	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	U	W	[	g	s	



# gothic ger

1	13	25	37	49	61	73	85
	,	8	D	W	/	h	t
2	14	26	38	50	62	74	86
!	—	G	E	Q	]	i	u
3	15	27	39	51	63	75	87
"	.	:	F	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	G	G	_	ƒ	w
5	17	29	41	53	65	77	89
\$	0	<	S	Z	'	l	r
6	18	30	42	54	66	78	90
%	1	=	2	U	a	m	h
7	19	31	43	55	67	79	91
&	2	>	3	B	b	n	z
8	20	32	44	56	68	80	92
'	3	?	R	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	Q	X	d	p	
10	22	34	46	58	70	82	94
)	5	u	M	y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	n	3	f	r	~
12	24	36	48	60	72	84	96
+	7	E	D	[	g	f	

# gothic ita

1	13	25	37	49	61	73	85
	,	B	D	P	/	h	t
2	14	26	38	50	62	74	86
!	—	G	A	Q	]	i	u
3	15	27	39	51	63	75	87
"	.	:	R	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	A	S	_	k	w
5	17	29	41	53	65	77	89
\$	o	<	H	C	'	l	x
6	18	30	42	54	66	78	90
%	l	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	3
8	20	32	44	56	68	80	92
'	3	?	R	W	r	o	~
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	G	e	q	~
11	23	35	47	59	71	83	95
*	6	B	N	O	f	r	~
12	24	36	48	60	72	84	96
+	7	a	O	[	g	s	

# rowmans

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
	.	:	F	R	↑	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	'	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	l
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	o

# rowmand

1	13	25	37	49	61	73	85
,	8	D	P	\	h	t	
2	14	26	38	50	62	74	86
!	-	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
"	.	:	F	R	↑	i	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	'	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
,	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	o

# rowmant

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
”	.	:	F	R	↑	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	‘	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
,	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	o

# futural

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
	.	:	F	R	^	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	‘	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
,	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	

# futura m

1	13	25	37	49	61	73	85
,	8	D	P	\	h	t	
2	14	26	38	50	62	74	86
!	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
”	.	:	F	R	^	i	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	`	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	<
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	>
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	

# greeks

1	13	25	37	49	61	73	85
	,	8	$\Delta$	$\Pi$	\	$\vartheta$	$\upsilon$
2	14	26	38	50	62	74	86
!	—	9	E	P	]	ι	$\varphi$
3	15	27	39	51	63	75	87
	.	:	Z	$\Sigma$	↑	$\kappa$	$\chi$
4	16	28	40	52	64	76	88
#	/	;	H	T	_	$\lambda$	$\psi$
5	17	29	41	53	65	77	89
\$	0	<	$\ominus$	$\Upsilon$	'	$\mu$	$\omega$
6	18	30	42	54	66	78	90
%	1	=		$\Phi$	$\alpha$	$\nu$	
7	19	31	43	55	67	79	91
&	2	>	$\K$	$\X$	$\beta$	$\xi$	
8	20	32	44	56	68	80	92
,	3	?	$\Lambda$	$\Psi$	$\gamma$	o	}
9	21	33	45	57	69	81	93
(	4	@	M	$\Omega$	$\delta$	$\pi$	
10	22	34	46	58	70	82	94
)	5	A	N		$\epsilon$	$\rho$	}
11	23	35	47	59	71	83	95
*	6	B	$\Xi$		$\zeta$	$\sigma$	~
12	24	36	48	60	72	84	96
+	7	$\Gamma$	O	[	$\eta$	$\tau$	o



# greekc

1	13	25	37	49	61	73	85
	,	8	Δ	Π	\	ϑ	υ
2	14	26	38	50	62	74	86
!	—	9	Ε	Ρ	]	ι	φ
3	15	27	39	51	63	75	87
;	.	:	Ζ	Σ	↑	κ	χ
4	16	28	40	52	64	76	88
#	/	;	Η	Τ	_	λ	ψ
5	17	29	41	53	65	77	89
\$	0	<	Θ	Υ	'	μ	ω
6	18	30	42	54	66	78	90
%	1	=	Ι	Φ	α	ν	
7	19	31	43	55	67	79	91
&	2	>	Κ	Χ	β	ξ	
8	20	32	44	56	68	80	92
'	3	?	Λ	Ψ	γ	ο	}
9	21	33	45	57	69	81	93
(	4	@	Μ	Ω	δ	π	
10	22	34	46	58	70	82	94
)	5	Α	Ν		ε	ρ	}
11	23	35	47	59	71	83	95
*	6	Β	Ξ		ζ	σ	~
12	24	36	48	60	72	84	96
+	7	Γ	Ο	[	η	τ	ο


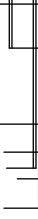

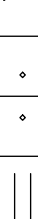
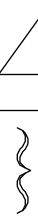



# scripts

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
!	—	9	E	2	]	i	u
3	15	27	39	51	63	75	87
''	.	:	F	R	↑	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	'	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
'	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	o









# scriptc

1	13	25	37	49	61	73	85
,	8	D	P	\	h	t	
2	14	26	38	50	62	74	86
!	—	9	E	2	]	i	u
3	15	27	39	51	63	75	87
''	.	:	F	R	↑	j	v
4	16	28	40	52	64	76	88
#	/	;	G	S	_	k	w
5	17	29	41	53	65	77	89
\$	0	<	H	T	'	l	x
6	18	30	42	54	66	78	90
%	1	=	I	U	a	m	y
7	19	31	43	55	67	79	91
&	2	>	J	V	b	n	z
8	20	32	44	56	68	80	92
,	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
(	4	@	L	X	d	p	
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	T	f	r	~
12	24	36	48	60	72	84	96
+	7	C	O	[	g	s	o

# mathlow

1	13	25	37	49	61	73	85
	,	8	d	p	\	€	
2	14	26	38	50	62	74	86
±	—	9	e	q	]	→	
3	15	27	39	51	63	75	87
≠	.	∏	f	r	∞	↑	
4	16	28	40	52	64	76	88
×	/	Σ	g	s	∞	←	
5	17	29	41	53	65	77	89
.	0	<	h	t	o	↓	÷
6	18	30	42	54	66	78	90
%	1	=	i	u	\$	∂	
7	19	31	43	55	67	79	91
≦	2	>	j	v	√	∇	⊥
8	20	32	44	56	68	80	92
≧	3	≠	k	w	√	√	} }
9	21	33	45	57	69	81	93
(	4	≡	l	x	⊂		∠
10	22	34	46	58	70	82	94
)	5	a	m	y	U		} }
11	23	35	47	59	71	83	95
*	6	b	n	z	⊃		∴
12	24	36	48	60	72	84	96
+	7	c	o	[	∩		~

# mathupp

1	13	25	37	49	61	73	85
	,	8	D	P	\	€	
2	14	26	38	50	62	74	86
±	—	9	E	Q	]	→	
3	15	27	39	51	63	75	87
≠	.	∏	F	R	∞	↑	
4	16	28	40	52	64	76	88
×	/	Σ	G	S	∞	←	
5	17	29	41	53	65	77	89
.	0	<	H	T	o	↓	÷
6	18	30	42	54	66	78	90
%	1	=	I	U	*	∂	
7	19	31	43	55	67	79	91
≤	2	>	J	V	√	∇	⊥
8	20	32	44	56	68	80	92
≥	3	≠	K	W	√	√	]
9	21	33	45	57	69	81	93
(	4	≡	L	X	C		∠
10	22	34	46	58	70	82	94
)	5	A	M	Y	U		⋈
11	23	35	47	59	71	83	95
*	6	B	N	Z	∩		⋈
12	24	36	48	60	72	84	96
+	7	C	O	[	∩		~

# astrology

1	13	25	37	49	61	73	85
	,	8	D	P	\	h	t
2	14	26	38	50	62	74	86
♋	♁	9	E	Q	♏	i	u
3	15	27	39	51	63	75	87
''	.	E	F	R	♎	j	v
4	16	28	40	52	64	76	88
☉	♄	☾	G	S	♍	k	w
5	17	29	41	53	65	77	89
♁	0	☼	H	T	♌	l	x
6	18	30	42	54	66	78	90
♀	1	*	I	U	a	m	y
7	19	31	43	55	67	79	91
⊕	2	♊	J	V	b	n	z
8	20	32	44	56	68	80	92
♂	3	♉	K	W	c	o	♎
9	21	33	45	57	69	81	93
(	4	♈	L	X	d	p	♁
10	22	34	46	58	70	82	94
)	5	A	M	Y	e	q	♄
11	23	35	47	59	71	83	95
4	6	B	N	Z	f	r	♋
12	24	36	48	60	72	84	96
h	7	C	O	♄	g	s	~

# meteorology

































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2	14	26	38	50	62	74	86
,	—	9	E	Q	]	i	u
3	15	27	39	51	63	75	87
⊙	.	∪	F	R	S	j	v
4	16	28	40	52	64	76	88
*	/	∪	G	S	∞	k	w
5	17	29	41	53	65	77	89
▲	0	∪	H	T	z	l	x
6	18	30	42	54	66	78	90
%	1	∪	I	U	a	m	y
7	19	31	43	55	67	79	91
☂	2	∪	J	V	b	n	z
8	20	32	44	56	68	80	92
▲	3	?	K	W	c	o	}
9	21	33	45	57	69	81	93
^	4	@	L	X	d	p	R
10	22	34	46	58	70	82	94
∪	5	A	M	Y	e	q	}
11	23	35	47	59	71	83	95
*	6	B	N	Z	f	r	9
12	24	36	48	60	72	84	96
∪	7	C	O	[	g	s	z

# symbolic
























































































1	13	25	37	49	61	73	85
2	14	26	38	50	62	74	86
3	15	27	39	51	63	75	87
4	16	28	40	52	64	76	88
5	17	29	41	53	65	77	89
6	18	30	42	54	66	78	90
7	19	31	43	55	67	79	91
8	20	32	44	56	68	80	92
9	21	33	45	57	69	81	93
10	22	34	46	58	70	82	94
11	23	35	47	59	71	83	95
12	24	36	48	60	72	84	96



# markers

1	13	25	37	49	61	73	85
							
2	14	26	38	50	62	74	86
							
3	15	27	39	51	63	75	87
							
4	16	28	40	52	64	76	88
							
5	17	29	41	53	65	77	89
							
6	18	30	42	54	66	78	90
							
7	19	31	43	55	67	79	91
							
8	20	32	44	56	68	80	92
							
9	21	33	45	57	69	81	93
							
10	22	34	46	58	70	82	94
							
11	23	35	47	59	71	83	95
							
12	24	36	48	60	72	84	96
							

# music

1	13	25	37	49	61	73	85
							
2	14	26	38	50	62	74	86
							
3	15	27	39	51	63	75	87
							
4	16	28	40	52	64	76	88
							
5	17	29	41	53	65	77	89
							
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7	19	31	43	55	67	79	91
							
8	20	32	44	56	68	80	92
							
9	21	33	45	57	69	81	93
							
10	22	34	46	58	70	82	94
							
11	23	35	47	59	71	83	95
							
12	24	36	48	60	72	84	96
