

DIV

H
D

DIV LD (SPI), SP.
LD HL, (XLOC)
LD A, (HL)
LD (DVCNT), A
INC HL
LD (XLOC), HL
EXX
LDC, 0
EXX
LD A, 3

NDIV LD HL, (XLOC)
LD C, (HL)
INC HL
LD B, (HL)
INC HL
LD (XLOC), HL
LD HL, (ZLOC)
LD E, (HL)
INC HL
LD D, (HL)
INC HL
LD (ZLOC), HL
EX AF, AF'
LD A, D
CP 1
JP M B2
CP 110
JP M C2

B2 EXX
SET Z, C
EXX
RET

C2 LDA, B
AND A
JP P
EXX
SET 0, C
EXX
LD HL, 0
AND A
SBC HL, BC
LD B, H

LD L, E
LD H, D
SLA L
RL H
ADD HL, DE
JR NC D2
RR H
RR L
SRL B
RR C

D2 EXDE, HL
LD H, B
LD L, C
LDB, 10

E2 LD A, H
AND 128
JR NZ F2
ADD HL, HL
DJNZ E2

F2 INC B
G2 LD A, D

OR E
JR Z B2
SRL D
RR E
DJNZ G2

LD A, H
LD C, L
LD HL, 0
LD B, 16

H2 RL C
RLA
ADC HL, HL
SBC HL, DE
JR NC, 12
ADD HL, DE
CCF

I2 DJNZ H2
RL C
RLA
LD B, A
EXX
BIT A, C

EXX
LD E, C
JR Z →
LD HL, 0
AND A
SBC HL, DE
EX DE, HL
LD HL, (XPERK)
LD (HL), E
INC HL

LD (HL), D
INC HL
LD (XPERK), HL
EX AF, AF'
AND A

JP M YDV
CP 3
JR NZ

LD (XMAX), DE
LD (XMIN), DE
JP YDV

K2 LD HL, (XMAX)
AND A
SBC HL, DE
JP P

LD (XMAX), DE
JP
LD HL, (XMIN)

AND A
SBC HL, DE
JP M X10
LD (XMIN), DE

L2 AND A
JP NZ YDV

LD HL, (XMAX)
LD DE, 1285
ADD HL, DE
JP M B2
LD HL, (XMIN)
LD DE, 65408
ADD HL, DE
JP P B2
LD DE, (XMAX)

D/A' A

1010	0000
1001	0000
0110	0000
1010	1111
0101	0001

LD A, HL
INC HL
EX AF, AF
BIT 7, HL
JR Z
SUB A
SUB HL
INC HL
EX AF, AF
LD D, A
SUB A
SUB D
EX AF, AF
JP

0010 $x \rightarrow -x$ $A0-x$

1101 0010 BIT 7, D 8
0000 - AND A 4
1111 LD HL, 0 10 37
0000 SBC HL, DE 15

110111011 BIT 7, D
00100101 CPL

$DA \times 4, B \times 2 + C \times 3$

$512 \times 100\% = 25.6$ 50. / real pseudo.

21000	1024	50	50
24.5	1336	33	33
	2047	25	25
	2048	25	25
	3072	16	16
	1750	44	50

D E

1101	1101
0010	

B C

0101	1011
------	------

A A'

1101	1110
0010	0010

SLA D
RLA
JR C
CP B
JR C
SUB B
INC D

11010011 53. 27011

BC = Z
A' A = X

A' < 5 bits

3 bits over

$D A = A A E$

8 9-5 = 4

D A

01101001	0
11010010	1
10100100	11
01001000	110
10010000	1101
00100000	11010
01000000	110100
10000000	1101000
00000000	0110000
11010011	
10100110	1101001

B D

00110101	D
01101001	
11010010	
10100100	
01001000	
10010000	
00100000	
10000000	
00000000	
11010011	
10100110	
01001110	
10011110	
00111110	
01111110	
10011110	
11111110	

A

00000000	
00000001	
00000011	
00000100	
00000101	
00000110	
00000111	
00010010	
00010011	
00010100	
00010101	
00010110	
00010111	
00011000	
00011001	
00011010	
00011011	
00011100	
00011101	
00011110	
00011111	
00100000	
00100001	
00100010	
00100011	
00100100	
00100101	
00100110	
00100111	
00101000	
00101001	
00101010	
00101011	
00101100	
00101101	
00101110	
00101111	
00110000	
00110001	
00110010	
00110011	
00110100	
00110101	
00110110	
00110111	
00111000	
00111001	
00111010	
00111011	
00111100	
00111101	
00111110	
00111111	
00110000	

UPHIGH

```
LD HL, (XD)
LD A, H
OR D
JR NZ + 2
LD D, E
LD H, L
```

```
AND 128
JR NZ + 12
SLA E
RLD
SLA L
RLH
OR H
OR D
JR + 240
```

```
LD B, 8
LD A, H
LD H, 0
SLA H
RLA
JR C + 3
CP D
JR C + 2
SUB D
INC H
DJNZ + 244
```

```
LD (LINC), SP
LD SP, (SPPLST)
LD A, H
LD HL, (YD)
EXX
LD BC', (Y1)
LD HL', (X1)
LD D', A
SUB A
EX AF, AF'
EXX
```

```
EXX
LD A', H'
AND A
JP P
LDA', B'
CP 1
```

```
JP NXTLP3
JR NZ + 251
LD A', B'
AND A'
JP P
INC BC'
INC BC'
```

```
EX AF, AF'
ADD A, D'
JR NC + 1
INC HL'
ADD A, D'
JR NC + 1
INC HL'
EX AF, AF'
```

```
EXX
DEC HL
DEC HL
LD A', H
CP 255
```

```
JR NZ + 214
JP NXTLP2
JP NZ NXTLP3
EXX
LDA', C
```

```
LD HL, 151
LD BE, (YD)
AND A
SBC HL, BE
JR NC
AND A
SBC EXHLDE
SBC HL, DE
LD BC, (YD)
ADD HL, BC
```

```
LD DE, 151
AND A
SBC HL, DE
EX HL, DE
LD HL, (YD)
JR C
LD HL, (YD)
SBC HL, DE
```

meter = 0
Intruder = 12
Meter = 21
Intruder = 31
SWES 42, 70.

$Y_0 - (Y_2 + 151)$

```
LD BC, (YD)
LD HL, (YD)
LD DE, (YD) 151
AND A
```

```
SBC HL, DE
EX HLDE
JP NC
```

$51 - Y_2 > 0$

$Y_2 - 151$

$151 - Y_2$
 Y_2

HL = 247 96 151 2 246
DE = 151 96

```
LD A', B'
AND A
JP RA
JP M
JR MSRN
LD A', H'
LD A', B'
CP 1
JP P
JP P
```

Dentap.

HL = count
BC = Y₀
HL = X₀

LDA, H
OR D
JR NZ →
LDD, E
LD H, L
AND 128 ←
JR NZ + 12 →
SLA E
RL D
SLA L
RL H
OR H
ORD
← JR - 16

LD B, 8 ←
LD A, H
LD H, 0
→ SLA H
RLA
JRC + 3 →
CP D
JRC + 2 →
SUB D ←
INC H
← DJNZ - 12

LD SP, (SPPLST)
LD A, H
LD HL, (Y2)
LD DE, 151
AND A
SBC HL, DE
EX HL, DE
LD HL, (YD)
JR C + 2 →
SBC HL, DE
EXX ←
LD BC', (Y1)
LD HL', (X1)
LD D', A
SUB A
EXX
EX AF, AF'

LDA', B' y
AND A
JPM →
LDA', H' α
ANDA'
JPM →
JR + 29 →
LDA', H' α
CP 1
JP PNXTLP
INC BC' ←
INC BC'
EX AF, AF'
ADD A, D'
JR NC + 1 →
INC HL' →
ADD A, D' ←
JR NC + 1 →
INC HL →
EX AF, AF' ←
EXX
DEC HL
DEC HL
LD A', H
CP 255
← JR NZ - 39

JP NXLTP2
JP NZ NXLTP3
LD A', L'
EX AF, AF'
LD E', A
LD A, C'
EXX
LDC, A
EX AF, AF'
LDE, A'
LD H', L
LD B, 110
LD D, 111
SLA C
RL B
SLA E
RLD
LDA', (DE)

LDA', H
EXX ; LDB', A'
→ LDA', E'
ADD A', D'
LD E', A'
JR NC + 28 →
INC L'
JP Z NXLTP3
EXX
LD A', (BC)
INC BC
LD H, A'
LD A', (BC)
LD L, A'
INC BC
LDA', (DE)
INC DE
OR L
LD L, A' 6176
PUSH HL
LD A', (HL)
PUSH AF'
LD A', (DE)
OR (HL)
INC DE
LD (HL), A'
EXX
← DJNZ - 30
JP NXLTP3
EXX ←
LD A', (BC)
LD H, A'
INC BC
LDA', L
AND 31
LD L, A' 2 31 1 31
LDA', (BC)
OR L
LD L, A'
PUSH HL
LD A', (HL)
PUSH AF'
DEC DE
LD A', (DE)

	AND A	RR E
	SBC HL, DE	DJNZ Q2
	JP M B2	LD A, H
YDV	EX AF, AF'	LD C, L
YDV	POP DE	LD HL, 0
	LD HL, (YLOC)	LD B, 16.
	LD C, (HL)	R2 RL C
	INC HL	RLA
	LD B, (HL) L	ADC HL, HL
	INC HL =	SBC HL, DE
	LD (YLOC), HL	JR NC S2
	LD A, B	ADD HL, DE
	AND A	CCF
	JP PM2	S2 DJNZ R2
	EXX	RL C
	SET 0, C	RLA
	EXX	LD D, A
	LD HL, 0	LDE, C
	SBC HL, BC	EXX
	LD B, H	BIT 0, C
	LD C, L	RES 0, C
M2	LD L, E	EXX
	LD H, D	JR Z T2
	SLA L	LD HL, 0
	RL H	AND A
	ADD HL, DE	SBC HL, DE
	JR NC N2	EX DE, HL
	RR H	T2 LD HL, (YPERS)
	RR L	LD (HL), E
	SRL B	INC HL
	RR C	LD (HL), D
N2	EX DE, HL	INC HL
	LD H, B	LD (YPERS), HL
	LD L, C	LD A, (DVCNT)
	LD B, 10	LD B, A
02	LDA, H	EX AF, AF'
	AND 128	DEC A
	JR NZ P2	DEC B
	ADD HL, HL	JP NZ, NDIV
	DJNZ 02	LD SP, (SPI)
P2	INC B	RET.
Q2	LD AD	
	OR E	
	JP Z B2	
	SAL D	