Pattern Recognition　K线图识别

CDL2CROWS　　　　Two Crows 两只乌鸦

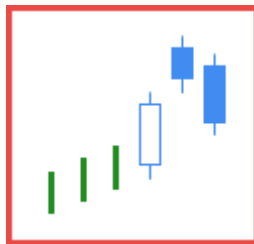integer = CDL2CROWS(open, high, low, close)

组成： First candle: a candle in an uptrend/white body

Second candle: black body/the closing price above the prior closing price (gap between bodies)

Third candle: black body/the opening price within the prior body/the closing price within the body of the first line (gap close)

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	90	164	80	121
% of Occurrences	0.00 %	19.78 %	36.04 %	17.58 %	26.60 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	84	123	84	163
% of Occurrences	0.22 %	18.24 %	27.03 %	18.46 %	36.05 %

CDL3BLACKCROWS　　　　Three Black Crows 三只黑乌鸦

integer = CDL3BLACKCROWS(open, high, low, close)

组成： First candle: a candle in an uptrend/black body

Second candle: black body/the opening price within the previous body/the closing price below the previous closing price

Third candle: black body/the opening price within the previous body/the closing price below the previous closing price

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	103	165	99	174
% of Occurrences	0.37 %	18.60 %	30.39 %	18.23 %	32.41 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	3	97	145	88	210
% of Occurrences	0.55 %	17.31 %	26.70 %	16.21 %	39.23 %

CDL3INSIDE　　　　　　Three Inside Up/Down 三内上下震荡

integer = CDL3INSIDE(open, high, low, close)

组成： Three Inside Up

First candle: a candle in a downtrend/black body

Second candle: white body/the candle body is engulfed by the prior candle body

Third candle: the closing price is above the previous closing price

Three Inside Down
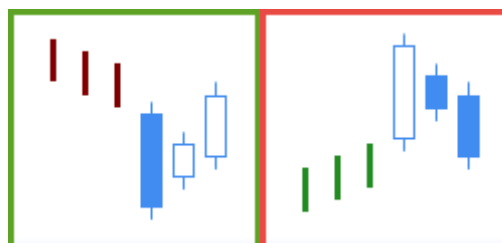
First candle: a candle in an uptrend/white body

Second candle: black body/the candle body is engulfed by the prior candle body

Third candle:　the closing price is below the previous closing price

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	2,588	3,993	2,680	4,935
% of Occurrences	0.01 %	18.22 %	28.13 %	18.88 %	34.76 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	9	2,452	3,171	2,278	6,287
% of Occurrences	0.06 %	17.21 %	22.34 %	16.05 %	44.34 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	7	3,019	5,227	3,281	4,815
% of Occurrences	0.04 %	18.43 %	31.97 %	20.07 %	29.49 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	27	2,825	4,305	2,911	6,281
% of Occurrences	0.17 %	17.11 %	26.33 %	17.81 %	38.58 %

CDL3LINESTRIKE　　　Three-Line Strike 三线震荡

integer = CDL3LINESTRIKE(open, high, low, close)

组成： Bearish Three-Line Strike

First candle: a candle in a downtrend/black body

Second candle: black body/the opening price is within the previous body/the closing price is below the previous closing price

Third candle: black body/the opening price is within the previous body/the closing price is below the previous closing price

Fourth candle: white body/candle's body engulfs all previous black bodies

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	28	31	15	38
% of Occurrences	0.00 %	25.00 %	27.68 %	13.39 %	33.93 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	26	24	18	44
% of Occurrences	0.00 %	23.21 %	21.43 %	16.07 %	39.29 %

CDL3OUTSIDE   Three Outside Up/Down 三外下震荡

integer = CDL3OUTSIDE(open, high, low, close)

组成： Three Outside Up

First candle: a candle in a downtrend/black body

Second candle: white body/candle's body engulfs the prior (black) candle's body

Third candle: closing price above the previous closing price/white body
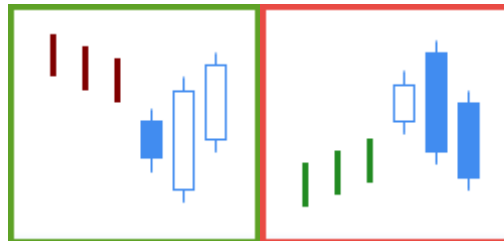
Three Outside Down

First candle: a candle in an uptrend/white body

Second candle: black body/candle's body engulfs the prior (white) candle's body

Third candle: closing price below the previous closing price/black body

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	1,794	2,879	1,904	3,364
% of Occurrences	0.02 %	18.02 %	28.96 %	19.15 %	33.85 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	19	1,692	2,263	1,631	4,338
% of Occurrences	0.19 %	16.83 %	22.76 %	16.40 %	43.82 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	30	2,217	3,962	2,407	3,628
% of Occurrences	0.25 %	17.86 %	32.36 %	19.66 %	29.87 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	37	2,068	3,334	2,120	4,685
% of Occurrences	0.30 %	16.59 %	27.23 %	17.31 %	38.57 %

CDL3STARSINSOUTH Three Stars In The South 南方三星

integer = CDL3STARSINSOUTH(open, high, low, close)

组成： First candle: a candle in a downtrend/black body/long lower shadow

Second candle: black body/the opening below the prior opening/the closing below or at the prior closing the low above the prior low

Third candle: a marubozu candle with black body/appears as a short line/a candle is located within the prior candle

逻辑：

预示信号：上涨
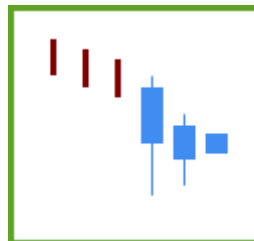
CDL3WHITESOLDIERS Three Advancing White Soldiers 三白兵

integer = CDL3WHITESOLDIERS(open, high, low, close)

组成： First candle: a candle in a downtrend/white body

Second candle: white body/the opening price within the previous body/the closing price above the previous closing price

Third candle: white body/the opening price within the previous body/the closing price above the previous closing price

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	56	103	82	124
% of Occurrences	0.00 %	15.34 %	28.22 %	22.47 %	33.97 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	52	89	61	162
% of Occurrences	0.27 %	13.98 %	24.38 %	16.71 %	44.66 %

CDLABANDONEDBABY　　　Abandoned Baby 弃婴

integer = CDLABANDONEDBABY(open, high, low, close, penetration=0)

组成： Bullish Abandoned Baby

First candle: a candle in a downtrend/black body

Second candle: a doji candle/the high price below the prior low price

Third candle: white body/the low price above the prior high price
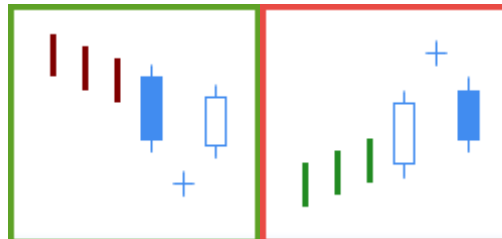
Bearish Abandoned Baby

First candle: a candle in an uptrend/white body

Second candle: a doji candle/the low price above the prior high price

Third candle: black body/the high price below the prior low price

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	1	2	6	3
% of Occurrences	0.00 %	8.33 %	16.67 %	50.00 %	25.00 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	1	2	1	8
% of Occurrences	0.00 %	8.33 %	16.67 %	8.33 %	66.67 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	0	4	0	1
% of Occurrences	0.00 %	0.00 %	80.00 %	0.00 %	20.00 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	0	2	2	1
% of Occurrences	0.00 %	0.00 %	40.00 %	40.00 %	20.00 %

CDLADVANCEBLOCK   Advance Block 推进

integer = CDLADVANCEBLOCK(open, high, low, close)

组成： First candle: a candle in an uptrend/white body

Second candle: white body/the opening price is within the previous body/the closing price is above the previous closing price

Third candle: white body/the opening price is within the previous body/the closing price is above the previous closing price

逻辑：

预示信号：下跌
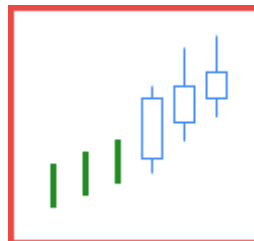
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	161	399	217	268
% of Occurrences	0.00 %	15.41 %	38.18 %	20.77 %	25.64 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	153	326	202	363
% of Occurrences	0.10 %	14.54 %	31.20 %	19.33 %	34.83 %

CDLBELTHOLD   Belt-hold 带住

integer = CDLBELTHOLD(open, high, low, close)
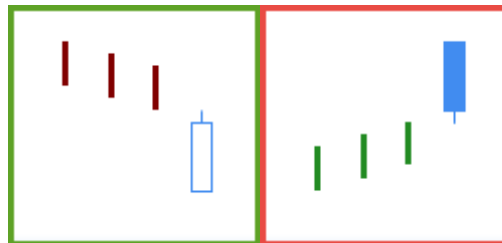
组成： Bullish Belt Hold

white body/no lower shadow/short upper shadow/appears as a long line

Bearish Belt Hold

black body/no upper shadow/short lower shadow/appears as a long line

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	1,099	1,566	1,172	2,183
% of Occurrences	0.00 %	18.26 %	26.01 %	19.47 %	36.26 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	1,051	1,240	973	2,755
% of Occurrences	0.02 %	17.44 %	20.60 %	16.16 %	45.78 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	1,434	2,514	1,597	2,380
% of Occurrences	0.05 %	18.04 %	31.71 %	20.14 %	30.06 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	11	1,350	2,107	1,387	3,074
% of Occurrences	0.14 %	16.89 %	26.57 %	17.49 %	38.91 %

CDLBREAKAWAY　　　　Breakaway 分离

integer = CDLBREAKAWAY(open, high, low, close)

组成：　Bearish Breakaway

First candle: a tall white candle

Second candle: a white candle/candle opens above the previous closing price (upward price gap, shadows can overlap)

Third candle: a white or black candle/candle opens above the previous opening price

Fourth candle: a white candle/candle closes above the previous closing price

Fifth candle: a tall black candle/candle opens below the previous closing price/candle closes below the second line's opening price and above the first line's closing price/the price gap formed between the first and the second line is not closed

逻辑：

预示信号：下跌
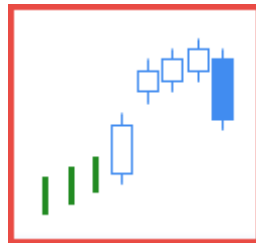
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	4	5	6	8
% of Occurrences	0.00 %	17.39 %	21.74 %	26.09 %	34.78 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	4	3	4	12
% of Occurrences	0.00 %	17.39 %	13.04 %	17.39 %	52.18 %

CDLCLOSINGMARUBOZU   Closing Marubozu 收盘光头光脚

integer = CDLCLOSINGMARUBOZU(open, high, low, close)

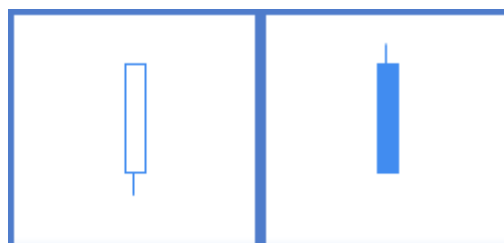**组成**： Closing White Marubozu

white body/no upper shadow/lower shadow smaller than the body/appears on as a short or long line

Closing Black Marubozu

black body/no upper shadow/upper shadow smaller than the body/appears as a short or long line

逻辑：

预示信号：无

CDLCONCEALBABYSWALL   Concealing Baby Swallow 藏婴吞没形态

integer = CDLCONCEALBABYSWALL(open, high, low, close)

**组成**： First candle: a Black Marubozu candle in a downtrend

Second candle: a Black Marubozu candle/candle opens within the prior candle's body/candle closes below the prior closing price

Third candle: a High Wave basic candle with no lower shadow/candle opens below the prior closing price upper shadow enters the prior candle's body

Fourth candle: black body/candle's body engulfs the prior candle's body including the shadows

逻辑：

预示信号：上涨
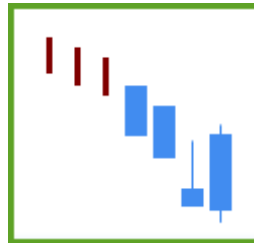
CDLCOUNTERATTACK　　　　Counterattack

integer = CDLCOUNTERATTACK(open, high, low, close)

组成： Bullish Counterattack Lines

The First Candle is long and black.

The Second Candle is white; it has the Close at the same level (More or less) of the Close of the First Candle.

The Real Body of the Second Candle should be long as the Real Body of the First Candle.

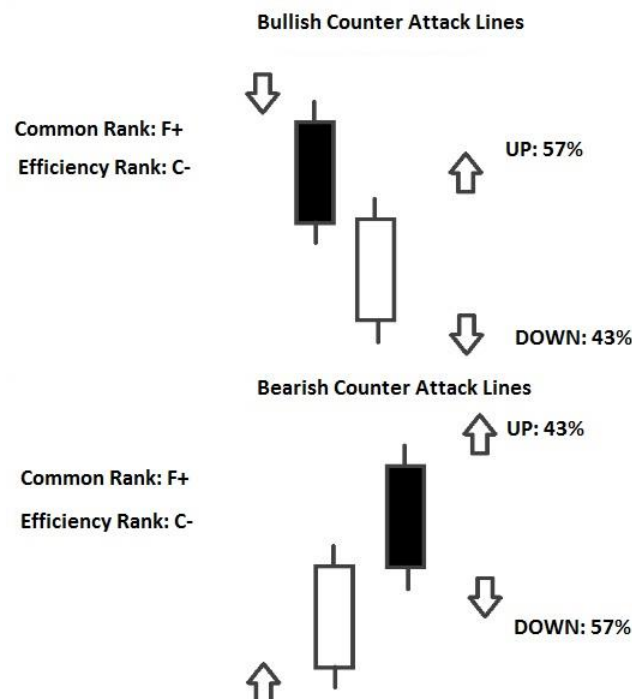Bearish Counterattack Lines

The First Candle is long and white.

The Second Candle is black; it has the Close at the same level (More or less) of the Close of the First Candle.

The Real Body of the Second Candle should be long as the Real Body of the First Candle.

逻辑：

预示信号：上涨/下跌

CDLDARKCLOUDCOVER　　　　Dark Cloud Cover 乌云盖

integer = CDLDARKCLOUDCOVER(open, high, low, close, penetration=0)

组成： First candle: a candle in an uptrend/white body

Second candle: black body/the opening above or equal of the prior high/the closing below the midpoint of the prior candle/the closing above the previous opening

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	762	1,406	822	1,117
% of Occurrences	0.05 %	18.49 %	34.22 %	20.00 %	27.24 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	11	706	1,163	730	1,499
% of Occurrences	0.27 %	16.91 %	28.30 %	17.77 %	36.75 %

CDLDOJI   Doji 十字星

integer = CDLDOJI(open, high, low, close)

组成： a doji candle/appears on as a long or short line

逻辑：

预示信号：无

CDLDOJISTAR   Doji Star 十字星

integer = CDLDOJISTAR(open, high, low, close)

组成： Bullish Doji Star

First candle: a candle in a downtrend/black body

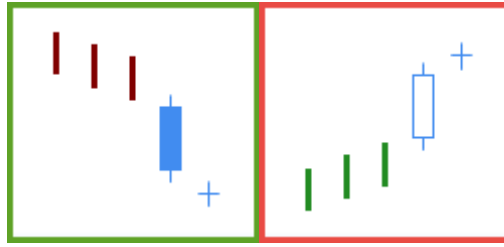Second candle: a doji candle/a body below the first candle's body

Bearish Doji Star

First candle: a candle in an uptrend/white body

Second candle: a doji candle/a body above the first candle's body

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	430	585	507	968
% of Occurrences	0.08 %	17.18 %	23.48 %	20.35 %	38.91 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	416	443	422	1,209
% of Occurrences	0.08 %	16.61 %	17.78 %	16.93 %	48.60 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	421	1,040	628	844
% of Occurrences	0.00 %	14.35 %	35.46 %	21.41 %	28.78 %

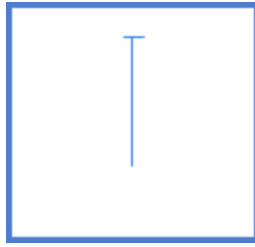| Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	14	387	836	569	1,127
% of Occurrences	0.48 %	12.71 %	28.50 %	19.40 %	38.91 %

CDLDRAGONFLYDOJI　　　Dragonfly Doji 蜻蜓十字星

integer = CDLDRAGONFLYDOJI(open, high, low, close)

组成： Opening, closing and maximum prices are the same or very similar/Long lower shadow/appears on as a long line

逻辑：

预示信号：无

CDLENGULFING   Engulfing Pattern 吞没

integer = CDLENGULFING(open, high, low, close)

组成： Bullish Engulfing

First candle: a candle in a downtrend/black body

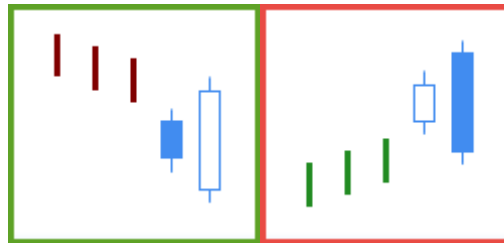Second candle: white body/candle's body engulfs the prior (black) candle's body

Bearish Engulfing

First candle: a candle in an uptrend/white body

Second candle: black body/candle's body engulfs the prior (white) candle's body

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	13	4,920	7,459	5,248	9,441
% of Occurrences	0.05 %	18.12 %	27.54 %	19.38 %	34.91 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	21	4,639	5,902	4,464	12,055
% of Occurrences	0.08 %	17.05 %	21.79 %	16.48 %	44.60 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	27	6,150	11,405	6,776	10,034
% of Occurrences	0.08 %	17.80 %	33.16 %	19.70 %	29.26 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	72	5,759	9,438	6,153	12,970
% of Occurrences	0.21 %	16.54 %	27.44 %	17.89 %	37.92 %

CDLEVENINGDOJISTAR　　Evening Doji Star 黄昏十字星

integer = CDLEVENINGDOJISTAR(open, high, low, close, penetration=0)

组成： First candle: a candle in an uptrend/white body

Second candle: a doji candle/a doji body above the previous candle body/the low price below the previous candle high price

Third candle: black body/candle body below the previous candle body/the closing price below the midpoint of the first candle body

逻辑：

预示信号：下跌
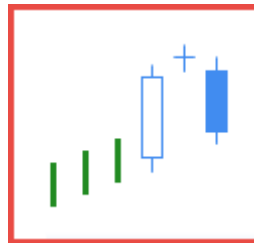
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	43	77	54	88
% of Occurrences	0.00 %	16.41 %	29.39 %	20.61 %	33.59 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	42	62	40	118
% of Occurrences	0.00 %	16.03 %	23.66 %	15.27 %	45.04 %

CDLEVENINGSTAR　　　　Evening Star 黄昏之星

integer = CDLEVENINGSTAR(open, high, low, close, penetration=0)

组成： First candle: a candle in an uptrend/white body

Second candle: white or black body/the candle body is located above the prior body

Third candle: black body/the candle body is located below the prior body/the candle closes at least halfway down the body of the first line

逻辑：它通常出现在股价连续大幅上涨和数浪上涨的中期顶部和大顶部。它的出现预示着夜幕即将降临，一轮上涨行情已经结束。黄昏之星是反转形态，有很强的杀伤力。

预示信号：下跌
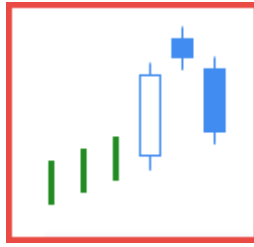
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	3	234	395	272	413
% of Occurrences	0.23 %	17.54 %	29.99 %	20.65 %	31.59 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	227	308	242	536
% of Occurrences	0.30 %	16.94 %	23.39 %	18.38 %	40.99 %

CDLGAPSIDESIDEWHITE Up/Down-gap side-by-side white lines 上/下间隙并排的白色线条

integer = CDLGAPSIDESIDEWHITE(open, high, low, close)

组成： Bullish Side-by-Side White Lines

First candle: a candle in an uptrend/white body

Second candle: white body/the low price above the prior high price

Third candle: white body/the low price above the first line high price/the candle's size similar to the prior candle's size

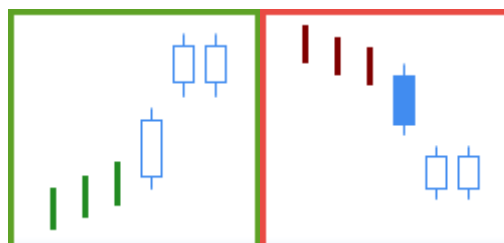Bearish Side-by-Side White Lines

First candle: a candle in a downtrend/black body

Second candle: white body/the high price below the prior low price

Third candle: white body/the high price below the first line low price/the candle's size similar to the prior candle's size

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	31	89	58	49
% of Occurrences	0.00 %	13.66 %	39.21 %	25.55 %	21.58 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	24	70	53	80
% of Occurrences	0.00 %	10.57 %	30.84 %	23.35 %	35.24 %

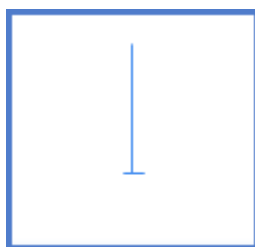| Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	3	4	4	2
% of Occurrences	0.00 %	23.08 %	30.77 %	30.77 %	15.38 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	2	3	4	4
% of Occurrences	0.00 %	15.38 %	23.08 %	30.77 %	30.77 %

CDLGRAVESTONEDOJI　　Gravestone Doji 墓碑十字线

integer = CDLGRAVESTONEDOJI(open, high, low, close)

组成： Opening, closing and minimum prices are the same or very similar/Long upper shadow/appears on
as a long line

逻辑：

预示信号：无

CDLHAMMER　　　　　Hammer 锤
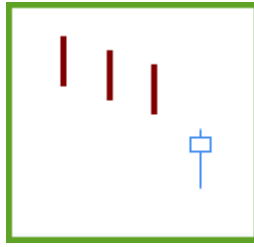
integer = CDLHAMMER(open, high, low, close)

组成： white or black candle with a small body/no upper shadow or the shadow cannot be longer than the
body/lower shadow between two to three times longer than the body

if the gap is created at the opening or at the closing, it makes the signal stronger/appears as a long line

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	8	2,128	2,488	1,827	3,493
% of Occurrences	0.08 %	21.32 %	25.02 %	18.37 %	35.21 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	13	2,054	1,964	1,526	4,387
% of Occurrences	0.13 %	20.53 %	19.75 %	15.35 %	44.24 %

CDLHANGINGMAN   Hanging Man 吊人

integer = CDLHANGINGMAN(open, high, low, close)

组成：white or black candle with a small body/no upper shadow or the shadow cannot be longer than the body/lower shadow at least two times longer than the body

if the gap is created at the opening or at the closing, it makes the signal stronger/appears as a long line/the body fully located above the trendline

逻辑：主力在高位开始出货，盘中出现长阴，为了达到骗线，主力在尾市将股价拉起，形成长长的下影线，使投资者认为下档有强支撑，而纷纷跟进。吊颈既有巨大的杀伤性，又有欺骗性，

预示信号：下跌
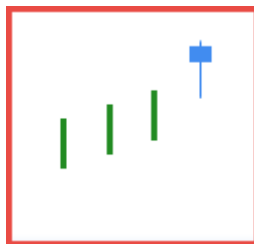
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	2,890	7,028	4,218	6,248
% of Occurrences	0.02 %	14.16 %	34.47 %	20.69 %	30.66 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	21	2,661	5,655	3,857	8,194
% of Occurrences	0.10 %	12.95 %	27.74 %	18.92 %	40.29 %

CDLHARAMI Harami Pattern 阴阳线(反吞没)

integer = CDLHARAMI(open, high, low, close)

组成： Bullish Harami

<u>First candle</u>: a candle in a downtrend/black body

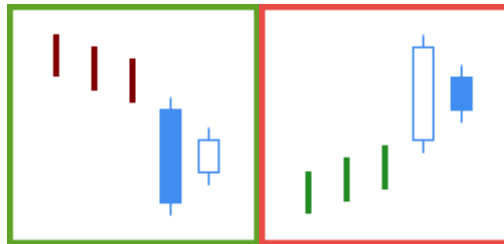<u>Second candle</u>: white body/candle's body engulfed by the prior (black) candle's body

Bearish Harami

<u>First candle</u>: a candle in an uptrend/white body

<u>Second candle</u>: black body/candle's body engulfed by the prior (white) candle's body

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	36	5,371	7,040	5,125	10,290
% of Occurrences	0.13 %	19.15 %	25.27 %	18.39 %	37.06 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	44	5,181	5,562	4,286	12,789
% of Occurrences	0.16 %	18.44 %	19.96 %	15.38 %	46.06 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	13	5,545	11,295	6,968	10,025
% of Occurrences	0.04 %	16.34 %	33.37 %	20.59 %	29.66 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	58	5,137	9,172	6,219	13,260
% of Occurrences	0.17 %	15.01 %	27.10 %	18.37 %	39.35 %

CDLHARAMICROSS   Harami Cross Pattern 交叉阴阳线

`integer = CDLHARAMICROSS(open, high, low, close)`

组成： Bullish Harami Cross

First candle: a candle in a downtrend/black body/appears on as a long line

Second candle: a doji candle with two shadows/the candle (including shadows) is engulfed by the previous candle's body

Bearish Harami Cross

First candle: a candle in an uptrend/white body/appears on as a long line

Second candle: a doji candle with two shadows/the candle (including shadows) is engulfed by the previous candle's body

逻辑：

预示信号：上涨/下跌
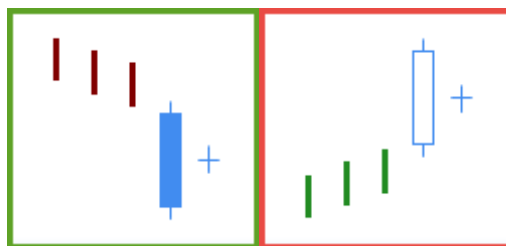
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	3	201	315	220	393
% of Occurrences	0.27 %	17.49 %	27.83 %	19.43 %	34.98 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	185	246	182	515
% of Occurrences	0.35 %	15.99 %	21.73 %	16.08 %	45.85 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	197	512	275	458
% of Occurrences	0.07 %	13.58 %	35.48 %	19.06 %	31.81 %

| Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	5	187	404	262	585
% of Occurrences	0.35 %	12.61 %	28.00 %	18.16 %	40.88 %

CDLHIGHWAVE　　　　　High-Wave Candle 长脚十字线

integer = CDLHIGHWAVE(open, high, low, close)

组成：a black or white body/very small body/at least one shadow required/appears on as a long line/the length of at least one shadows is at least 3 times larger than the body

逻辑：

预示信号：无
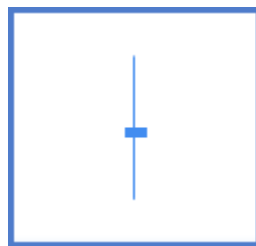
CDLHIKKAKE　　　　　Hikkake Pattern 陷阱
CDLHIKKAKEMOD　　　　Modified Hikkake Pattern 改良的陷阱

integer = CDLHIKKAKE(open, high, low, close)

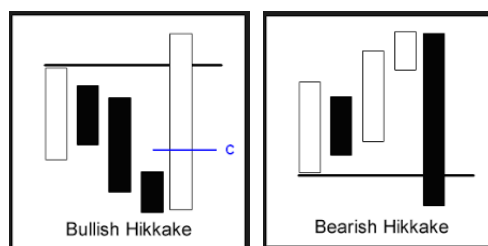integer = CDLHOMINGPIGEON(open, high, low, close)

组成：　Hikkake Pattern

三日 K 线模式，与阴阳线类似，第二日价格在前一日实体范围内，上升趋势中，第三日收盘价高于前两日，下降反转失败，上升趋势继续。下降趋势中，第三日收盘价低于前两日，上升反转失败，下降趋势继续.(可能具有多日类似模式)

Modified Hikkake Pattern

三日 K 线模式，与陷阱类似，上升趋势中，第三日跳空高开；下跌趋势中，第三日跳空低开，向上反转失败，下降趋势继续。(可能具有多日类似模式)

逻辑：

预示信号：上升/下降

Bullish Hikkake　　　　Bearish Hikkake
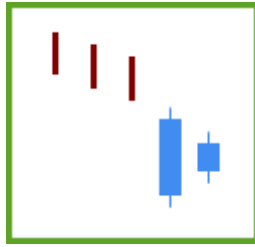
CDLHOMINGPIGEON　　　　Homing Pigeon 信鸽

integer = CDLHOMINGPIGEON(open, high, low, close)

组成：　First candle: a candle in a downtrend/black body

Second candle: black body/candle's body engulfed by the prior candle's body

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	65	1,470	1,952	1,529	2,906
% of Occurrences	0.82 %	17.74 %	24.64 %	19.30 %	37.50 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	73	1,413	1,547	1,236	3,653
% of Occurrences	0.92 %	16.92 %	19.53 %	15.60 %	47.03 %

CDLIDENTICAL3CROWS　　Identical Three Crows 相同的三只乌鸦

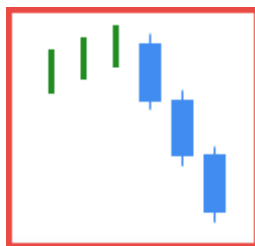integer = CDLIDENTICAL3CROWS(open, high, low, close)

组成： <u>First candle</u>: a candle in an uptrend/black body

<u>Second candle</u>: black body/the opening price at or near the prior close

<u>Third candle</u>: black body/the opening price at or near the prior close

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	8	15	5	18
% of Occurrences	0.00 %	17.39 %	32.61 %	10.87 %	39.13 %

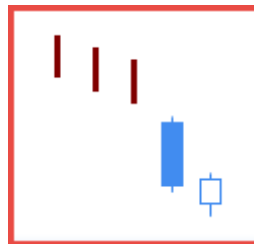| Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	7	13	6	20
% of Occurrences	0.00 %	15.22 %	28.26 %	13.04 %	43.48 %

CDLINNECK　　　　　In-Neck Pattern 颈纹

integer = CDLINNECK(open, high, low, close)

组成：　First candle: a candle in a downtrend/black body/appears on as a long line

Second candle: white body/the opening price below the previous closing price/the closing price is slightly above the previous closing price (up to 15% of the first line body)

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	43	64	42	53
% of Occurrences	0.00 %	21.29 %	31.68 %	20.79 %	26.24 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	41	55	39	67
% of Occurrences	0.00 %	20.30 %	27.23 %	19.31 %	33.16 %

## CDLINVERTEDHAMMER　　　Inverted Hammer 倒锤

integer = CDLINVERTEDHAMMER(open, high, low, close)

组成：　First candle: a candle in a downtrend/black body

Second candle: a white or black candle with a small body/no lower shadow or the shadow cannot be longer than then body/upper shadow at least 2.5 times longer than the body/the open below or at the level of the previous candle's close

逻辑：

预示信号：上涨
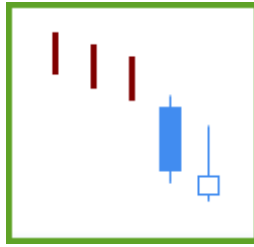
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	478	548	483	1,042
% of Occurrences	0.16 %	18.55 %	21.45 %	18.90 %	40.94 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	466	437	365	1,283
% of Occurrences	0.16 %	18.08 %	17.10 %	14.29 %	50.37 %

CDLKICKING　　　　　　Kicking **踢**

CDLKICKINGBYLENGTH　Kicking-bull/bear determined by the longer marubozu **踢牛/踢熊**

integer = CDLKICKING(open, high, low, close)

integer = CDLKICKINGBYLENGTH(open, high, low, close)

组成： Kicking Up (Bullish Kicking)

First candle: a Black Marubozu/appears on as a long line

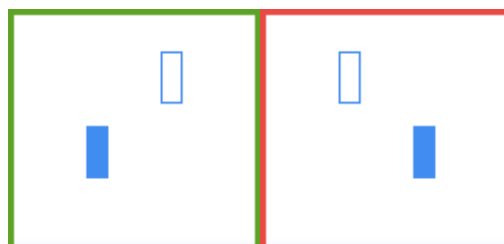Second candle: a White Marubozu/price gaps upward/appears on as a long line

Kicking Down (Bearish Kicking)

First candle: a White Marubozu/appears on as a long line

Second candle: a Black Marubozu/price gaps downward/appears on as a long line

逻辑：

预示信号：上涨/下跌

CDLLADDERBOTTOM　　　Ladder Bottom **梯底**
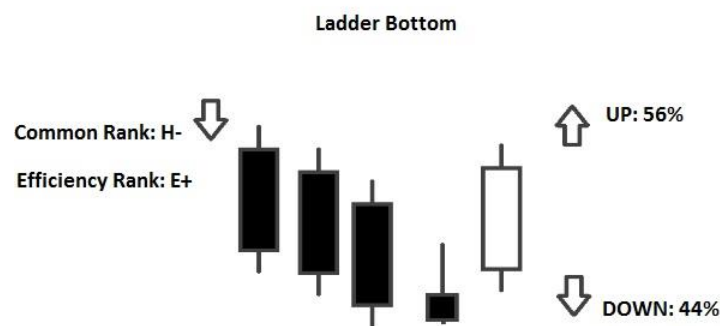
integer = CDLLADDERBOTTOM(open, high, low, close)

组成： The First, Second and Third Candle are long and black; each Candle has the Close and the Open below the Close and Open of the Previous Candle.

The Fourth Candle is black, with a short Real Body and a long Upper Shadow.

The Fifth Candle is long and white, it has the Open above the Real Body of the Fourth Candle.

逻辑：

预示信号：上涨

Ladder Bottom

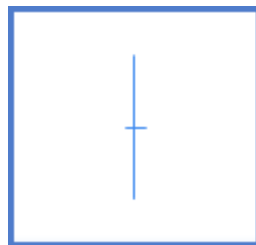Common Rank: H-

Efficiency Rank: E+

UP: 56%

DOWN: 44%

CDLLONGLEGGEDDOJI　　　Long Legged Doji 长腿十字线

integer = CDLLONGLEGGEDDOJI(open, high, low, close)

组成： a doji candle/opening and closing prices are the same or similar/upper and lower shadow are very long/body is located in the middle of the candle or nearly mid-range/appears on as a long line

逻辑：

预示信号：无

CDLLONGLINE　　　Long Line Candle 长线

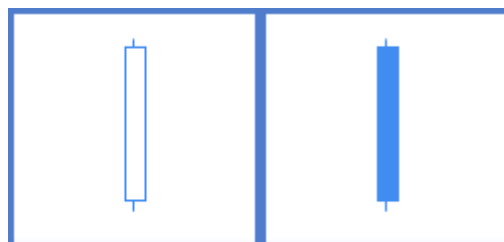integer = CDLLONGLINE(open, high, low, close)

组成： Long White Candle

white body/upper and lower shadow is required/none of the shadows can be larger than the body/the candlestick body three times higher than the average body of the last 5 or 10 candles/appears on as a long line

Long Black Candle

black body/upper and lower shadow is required/none of the shadows can be larger than the body/the candlestick body three times higher than the average body of the last 5 or 10 candles/appears on as a long line

逻辑：

预示信号：无

CDLMARUBOZU　　　Marubozu 光头光脚

integer = CDLMARUBOZU(open, high, low, close)
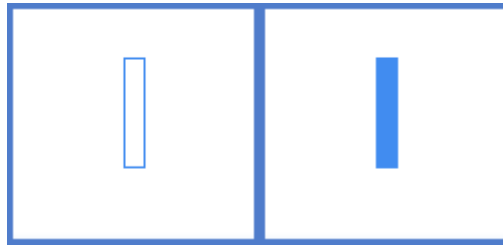
组成：White Marubozu

white body/lack of shadows/appears as a short or long line

Black Marubozu

black body/lack of shadows/appears on as a short or long line

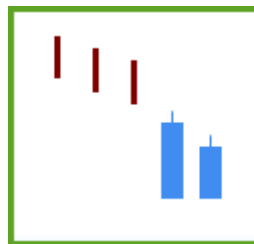**逻辑**： 无

CDLMATCHINGLOW　　　　Matching Low 匹配低

integer = CDLMATCHINGLOW(open, high, low, close)

组成： First candle: a candle in a downtrend/black body/no lower shadow/appears as a long line

Second candle: black body/the opening price is below the previous opening price/the closing price is at the level of the previous closing price/no lower shadow

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	11	31	15	43
% of Occurrences	0.00 %	11.00 %	31.00 %	15.00 %	43.00 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	10	25	12	53
% of Occurrences	0.00 %	10.00 %	25.00 %	12.00 %	53.00 %

CDLMATHOLD　　　　Mat Hold 垫住

integer = CDLMATHOLD(open, high, low, close, penetration=0)

组成： Bullish Mat Hold Pattern

The First Candle is long and white. Then there is a Gap Up between the First and Second Candle.

The Second Candle is black, it has a short Real Body; moreover it has the Close above the Close of the First Candle.

The Third Candle can be white or black (It doesn't matter), but it has a short Real Body.

The Fourth Candle is black, with a short Real Body.

The Second, Third and Fourth Candle represent a decline in prices; moreover their Real Bodies are above the Low of the First Candle.

The Fifth Candle is long and white; it has the Close above the High of the Second Candle.

Bearish Mat Hold Pattern

The First Candle is long and black. Then there is a Gap Down between the First and Second Candle.

The Second Candle is white, it has a short Real Body; moreover it has the Close below the Close of the First Candle.

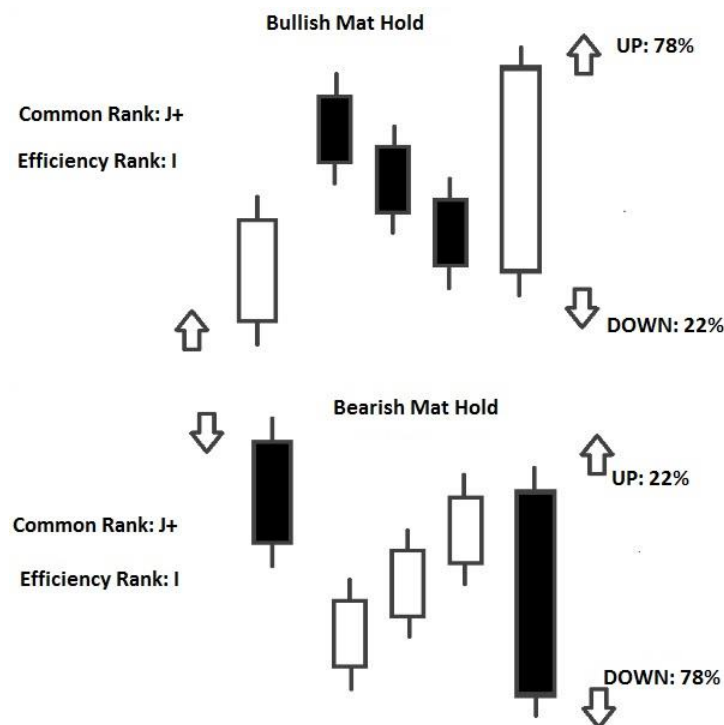The Third Candle can be white or black (It doesn't matter), but it has a short Real Body.

The Fourth Candle is white, with a short Real Body.

The Second, Third and Fourth Candle represent a rise in prices; moreover their Real Bodies are below the High of the First Candle.

The Fifth Candle is long and black; it has the Close below the Low of the Second Candle.

逻辑：

预示信号：上涨/下跌

Bullish Mat Hold

Common Rank: J+

Efficiency Rank: I

UP: 78%

DOWN: 22%

Bearish Mat Hold

Common Rank: J+

Efficiency Rank: I

UP: 22%

DOWN: 78%

CDLMORNINGDOJISTAR   Morning Doji Star 早晨十字星

integer = CDLMORNINGDOJISTAR(open, high, low, close, penetration=0)

组成： First candle: a candle in a downtrend/black body

Second candle: a doji candle/a doji body below the previous candle body/the high price above the previous candle low price

Third candle: white body/candle body above the previous candle body/the closing price above the midpoint of the first candle body

逻辑：

预示信号：上涨
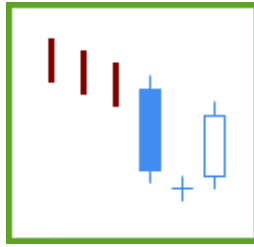
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	79	83	65	138
% of Occurrences	0.00 %	21.64 %	22.74 %	17.81 %	37.81 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	74	67	53	171
% of Occurrences	0.00 %	20.27 %	18.36 %	14.52 %	46.85 %

CDLMORNINGSTAR　　　　Morning Star 晨星

integer = CDLMORNINGSTAR(open, high, low, close, penetration=0)

组成：First candle: a candle in a downtrend/black body

Second candle: white or black body/the candle body is located below the prior body

Third candle: white body/the candle body is located above the prior body/the candle closes at least halfway up the body of the first line

逻辑：通常出现在股价连续大幅下跌和数浪下跌的中期底部和大底部。暗示多空力量对比已开始发生转变，一轮上升行情已经开始。

预示信号：上涨
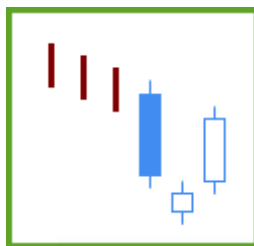
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	381	461	301	716
% of Occurrences	0.11 %	20.36 %	24.77 %	16.17 %	38.59 %

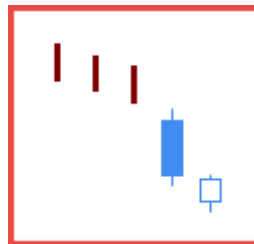| Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	366	344	270	879
% of Occurrences	0.11 %	19.56 %	18.48 %	14.51 %	47.34 %

CDLONNECK   On-Neck Pattern 颈型

`integer = CDLONNECK(open, high, low, close)`

组成： First candle: a candle in a downtrend/black body/appears on as a long line

Second candle: white body/the opening price below the previous closing price/the closing price is equal to the previous low price

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	12	26	7	19
% of Occurrences	0.00 %	18.75 %	40.62 %	10.94 %	29.69 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	12	24	8	20
% of Occurrences	0.00 %	18.75 %	37.50 %	12.50 %	31.25 %

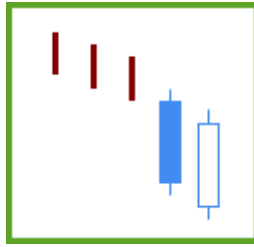## CDLPIERCING   Piercing Pattern 穿孔模式

`integer = CDLPIERCING(open, high, low, close)`

组成： First candle: a candle in a downtrend/black body

Second candle: white body/the opening below or equal of the prior low/the closing above the midpoint of the prior candle's body/the closing below the previous opening

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	642	799	584	1,178
% of Occurrences	0.12 %	19.90 %	24.91 %	18.21 %	36.86 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	5	625	637	494	1,446
% of Occurrences	0.16 %	19.33 %	19.86 %	15.40 %	45.25 %

CDLRICKSHAWMAN   Rickshaw Man 车夫

integer = CDLRICKSHAWMAN(open, high, low, close)

组成： Is a Doji Line, with a Real Body located halfway between the two Shadows (That's why is different from a Long Legged Doji) /It has both Shadows (Upper and Lower) very long.

逻辑：

预示信号：无

Rickshaw Man

Common Rank: F

Efficiency Rank: D

Continuation: 51%

Reversal: 49%

CDLRISEFALL3METHODS   Rising/Falling Three Methods 上升/下降三法

integer = CDLRISEFALL3METHODS(open, high, low, close)

组成： Rising Three Methods

The First and Fifth Candle are white and are longer than the other Three Candles of the Pattern.

The Second, Third and Fourth Candle are black (Or they alternate the color: it only matters that they represent a Decline in Prices; normally is the Third Candle that can be of any color). Moreover these Candles are fully contained within the Real Body of the First Candle (or within the High-Low Range of the First Candle); while the Lows are above the Open of the First Candle and the Highs are below the Close of the First Candle. The Close of the Fifth Candle is above the Close of the First Candle.

Falling Three Methods.

The First and Fifth Candle are black and are longer than the other Three Candles of the Pattern.

The Second, Third and Fourth Candle are white(Or they alternate the color: it only matters that they represent a Rise in Prices; normally is the Third Candle that can be of any color). Moreover these Candles are fully contained within the Real Body of the First Candle (or within the High-Low Range of the First Candle); while the Lows are below the Open of the First Candle and the Highs are above the Close of the First Candle. The Close of the Fifth Candle is below the Close of the First Candle.

逻辑：

预示信号：上涨/下跌
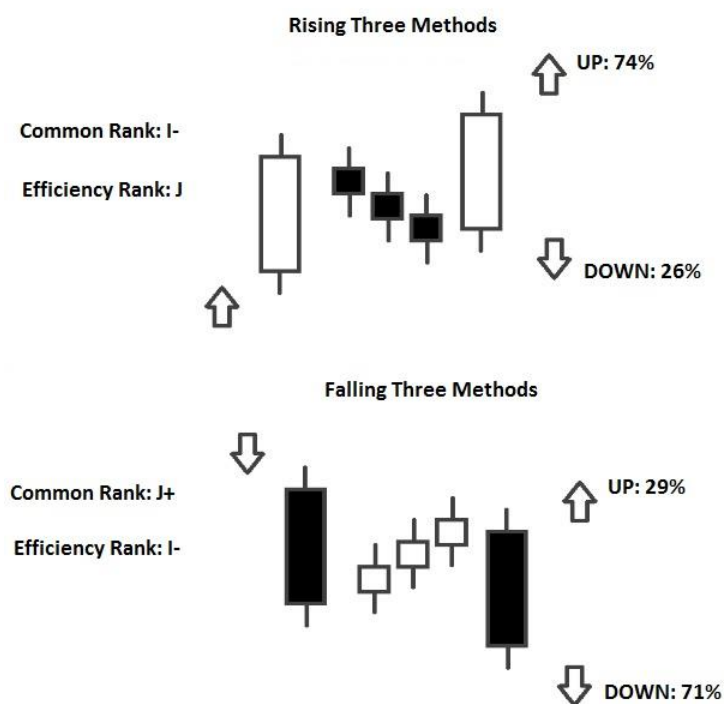
CDLSEPARATINGLINES   Separating Lines 分割线

integer = CDLSEPARATINGLINES(open, high, low, close)

组成： Bullish Separating Lines

First candle: a candle in an uptrend/black body/appears as a long line

Second candle: white body/the opening price is equal to the previous opening price
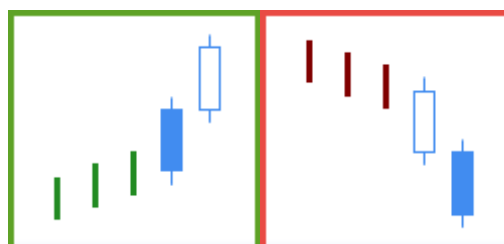
Bearish Separating Lines

First candle: a candle in a downtrend/white body/appears as a long line

Second candle: black body/the opening price is equal to the previous opening price

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	18	50	32	58
% of Occurrences	0.00 %	11.39 %	31.65 %	20.25 %	36.71 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	17	33	34	74
% of Occurrences	0.00 %	10.76 %	20.89 %	21.52 %	46.83 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	22	21	15	36
% of Occurrences	0.00 %	23.40 %	22.34 %	15.96 %	38.30 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	22	18	11	43
% of Occurrences	0.00 %	23.40 %	19.15 %	11.70 %	45.75 %

CDLSHOOTINGSTAR　　　ShCoting Star 流星

integer = CDLSHOOTINGSTAR(open, high, low, close)

组成： One-Candle Shooting Star

white or black candle with a small body/no lower shadow or the shadow cannot be longer than the body/upper shadow at least two times longer than the body

if the gap is created at the opening or the closing, it makes the signal stronger/appears as a long line
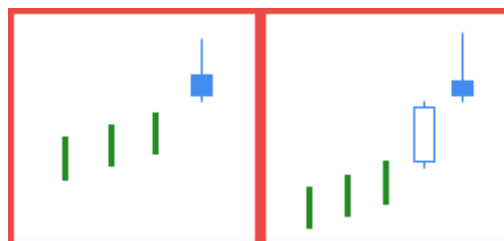
Two-Candle Shooting Star

First candle: a candle in an uptrend/white body

Second candle: a white or black candle with a small body/no lower shadow or the shadow cannot be longer than then body/upper shadow at least 2.5 times longer than the body/the open above or at the level of the previous candle's close

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	25	3,258	5,892	3,360	4,692
% of Occurrences	0.15 %	18.76 %	34.20 %	19.50 %	27.39 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	64	3,031	4,840	3,093	6,199
% of Occurrences	0.37 %	17.22 %	28.10 %	17.95 %	36.36 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	407	790	530	748
% of Occurrences	0.04 %	16.40 %	31.91 %	21.41 %	30.24 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	4	377	647	470	978
% of Occurrences	0.16 %	15.07 %	26.13 %	18.98 %	39.66 %

CDLSHORTLINE　　　　Short Line Candle 短线

integer = CDLSHORTLINE(open, high, low, close)

组成： Short White Candle

white body/required lower and upper shadow/none of the shadows can be larger than the body/appears on as a short line

Short Black Candle

black body/required lower and upper shadow/none of the shadows can be larger than the body/appears as a short line

逻辑：

预示信号：无

CDLSPINNINGTOP　　　　Spinning Top 陀螺

integer = CDLSPINNINGTOP(open, high, low, close)

组成： White Spinning Top

white body/at least one shadow required/at least one shadow has to be longer than the body/appears on as a long and a short line

if appears on as a long line, none of the shadows can exceed three times the body (otherwise we would have the High Wave basic candle)
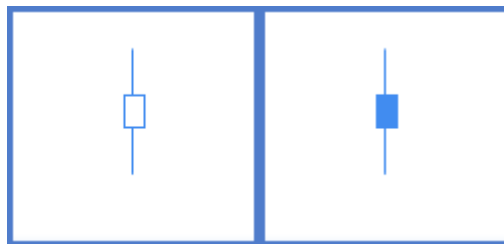
Black Spinning Top

black body/at least one shadow required/body cannot be larger than any of the shadows/appears as a short line

if none of the shadows exceeds three times the body, it is allowed to appear as a long line

逻辑：

预示信号：无

CDLSTALLEDPATTERN　　Stalled Pattern 停滞模式

integer = CDLSTALLEDPATTERN(open, high, low, close)

组成： Deliberation

First candle: a candle in an uptrend/white body

Second candle: white body/the opening price is above the previous opening price/the closing price is above the previous closing price

Third candle: white body/the opening price is slightly lower or higher than the previous closing price/the closing price is above the previous closing price

逻辑：

预示信号：下跌
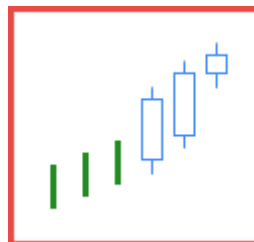
Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	333	1,196	645	534
% of Occurrences	0.00 %	12.30 %	44.17 %	23.82 %	19.71 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	2	298	939	607	862
% of Occurrences	0.07 %	10.93 %	34.68 %	22.42 %	31.90 %

CDLSTICKSANDWICH　　　Stick Sandwich 棍子三明治

integer = CDLSTICKSANDWICH(open, high, low, close)

组成： Bearish Stick Sandwich

The First Candle: white, it has a short Upper shadow (Or it has not an Upper Shadow) that represents a new High in the Uptrend.

The Second Candle: black, it has the Close below the Open of the First Candle (The Real Body is below the Close of the First Candle).

The Third Candle: white, it has the Open below the Close of the Second Candle whereas it has the Close at the same level (More or less) of the Close of the First Candle (So that it fully contains the Real Body of the Second Candle).
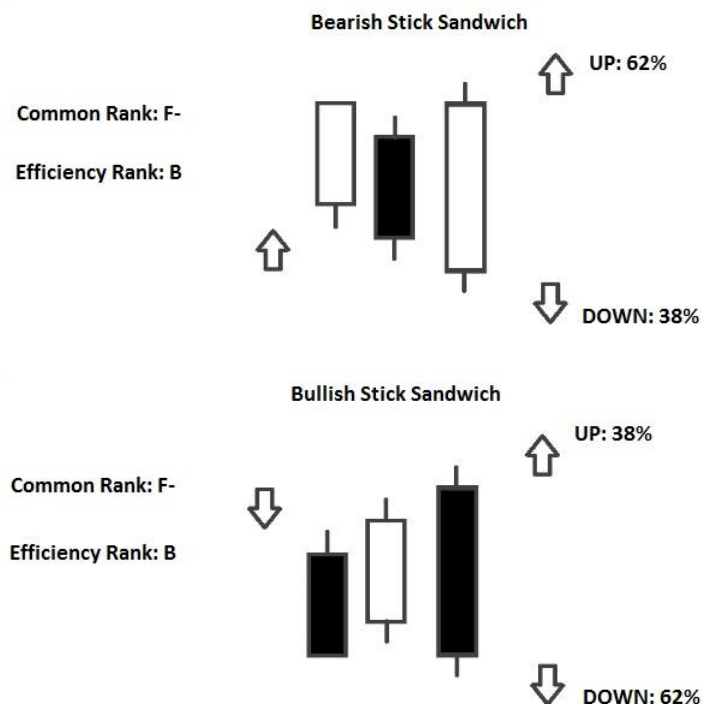
Bullish Stick Sandwich

The First Candle: black, it has a short Lower shadow (Or it has not a Lower Shadow) that represents a new Low in the Downtrend.

The Second Candle: white, it has the Open above the Close of the First Candle (The Real Body is above the close of the First Candle).

The Third Candle: black, it has the Open above the Close of the Second Candle whereas it has the Close at the same level (More or less) of the Close of the First Candle (So that it fully contains the Real Body of the Second Candle).

逻辑：

预示信号：上涨/下跌

Bearish Stick Sandwich

Common Rank: F-

Efficiency Rank: B

UP: 62%

DOWN: 38%

Bullish Stick Sandwich

Common Rank: F-

Efficiency Rank: B

UP: 38%

DOWN: 62%

CDLTAKURI   Takuri (Dragonfly Doji with very long lower shadow) 托里

CDLTASUKIGAP   Tasuki Gap 翼隙

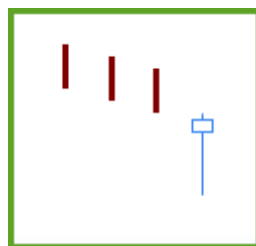integer = CDLTAKURI(open, high, low, close)

integer = CDLTASUKIGAP(open, high, low, close)

组成： white or black candle with a small body/no upper shadow or the shadow cannot be longer than the body/lower shadow at least three times longer than the body

if the gap is created at the opening or at the closing, it makes the signal stronger/appears as a long line

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	8	2,195	2,492	1,835	3,406
% of Occurrences	0.08 %	22.01 %	25.08 %	18.47 %	34.36 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	10	2,110	2,001	1,549	4,266
% of Occurrences	0.10 %	21.14 %	20.14 %	15.59 %	43.03 %

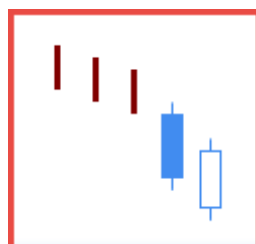**CDLTHRUSTING**   Thrusting Pattern 推模式

integer = CDLTHRUSTING(open, high, low, close)

组成： First candle: a candle in a downtrend/black body/appears as a long line

Second candle: white body/the opening below the prior low/the closing above the previous candle's closing/the closing below the midpoint of the previous candle's body/appears as a long line

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	614	684	451	797
% of Occurrences	0.00 %	24.12 %	26.87 %	17.71 %	31.30 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	1	595	567	413	970
% of Occurrences	0.04 %	23.33 %	22.27 %	16.22 %	38.14 %

CDLTRISTAR　　　　　Tristar Pattern 三星模式

`integer = CDLTRISTAR(open, high, low, close)`

组成： Bullish Tri-Star

<u>First candle:</u> a doji candle in a downtrend

<u>Second candle:</u> a doji candle/a body below the prior body

<u>Third candle:</u> a doji candle/a body above the prior body

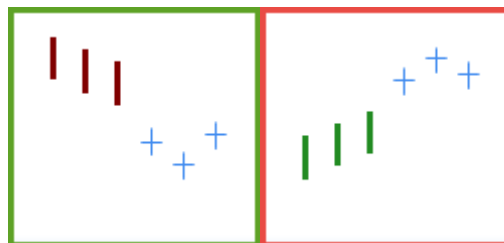Bearish Tri-Star

<u>First candle:</u> a doji candle in an uptrend

<u>Second candle:</u> a doji candle/a body above the prior body

<u>Third candle:</u> a doji candle//a body below the prior body

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	8	18	13	12
% of Occurrences	0.00 %	15.69 %	35.29 %	25.49 %	23.53 %
Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	8	16	6	21
% of Occurrences	0.00 %	15.69 %	31.37 %	11.76 %	41.18 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	12	21	9	7
% of Occurrences	0.00 %	24.49 %	42.86 %	18.37 %	14.28 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	11	13	10	15
% of Occurrences	0.00 %	22.45 %	26.53 %	20.41 %	30.61 %

CDLUNIQUE3RIVER　　　　Unique 3 River 独特的三河
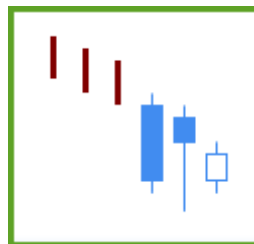
integer = CDLUNIQUE3RIVER(open, high, low, close)

组成： First candle: black candle/a candle in a downtrend

Second candle: black candle/a body within the prior body/the lower shadow is at least twice longer than the body/the low price below the prior low price

Third candle: white candle/a body located below the prior body/the low price above the prior low price

逻辑：

预示信号：上涨

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	8	6	7	9
% of Occurrences	0.00 %	26.67 %	20.00 %	23.33 %	30.00 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	8	4	6	12
% of Occurrences	0.00 %	26.67 %	13.33 %	20.00 %	40.00 %

CDLUPSIDEGAP2CROWS　　　　Upside Gap Two Crows 双飞乌鸦

integer = CDLUPSIDEGAP2CROWS(open, high, low, close)
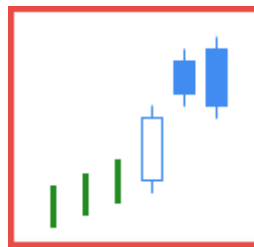
组成： First candle: a candle in an uptrend/white body

Second candle: black body/candle's body above the previous candle's body

<u>Third candle</u>: black body/candle's body engulfs the prior candle's body

逻辑：

预示信号：下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	25	55	31	39
% of Occurrences	0.00 %	16.67 %	36.67 %	20.67 %	25.99 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	24	42	30	54
% of Occurrences	0.00 %	16.00 %	28.00 %	20.00 %	36.00 %

CDLXSIDEGAP3METHODS　Upside/Downside Gap Three Methods 上行/下行缺口三方法

integer = CDLXSIDEGAP3METHODS(open, high, low, close)

组成：　Upside Gap Three Methods

<u>First candle</u>: a candle in an uptrend/white body

<u>Second candle</u>: white body/the low above the prior high (gap)

<u>Third candle</u>: black body/the opening price within the prior body/the closing price within the body of the first line (gap close)
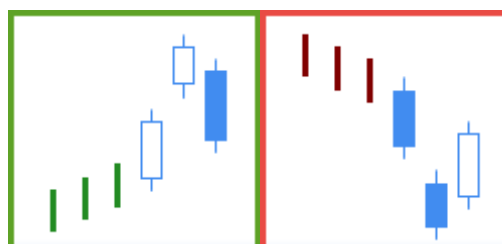
Downside Gap Three Methods

<u>First candle</u>: a candle in a downtrend/black body

<u>Second candle</u>: black body/the high below the prior low (gap)

<u>Third candle:</u> white body/the opening price within the prior body/the closing price within the body of the first line (gap close)

逻辑：

预示信号：上涨/下跌

Efficiency statistics (5/10 candlesticks testing period):

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	21	27	25	39
% of Occurrences	0.00 %	18.75 %	24.11 %	22.32 %	34.82 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	21	19	18	54
% of Occurrences	0.00 %	18.75 %	16.96 %	16.07 %	48.22 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	24	36	30	55
% of Occurrences	0.00 %	16.55 %	24.83 %	20.69 %	37.93 %

Efficiency	NO DATA	FALSE	LOW	MEDIUM	HIGH
Number of Occurrences	0	22	31	26	66
% of Occurrences	0.00 %	15.17 %	21.38 %	17.93 %	45.52 %