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Do you have a good trading strategy or idea and want to make a Expert Advisor robot for MetaTrader 4(MT4) based on it?

However you have no programming skills and afraid to give your idea to 3rd party programmer to avoid idea stealing?

If you answer yes - then my new free Expert Advisor Builder is the right tool for you!

Expert Advisor Builder allows you to create your own robot easily without any knowledge of complicated programming on MQ4!

Simply define the Buy and Sell strategy and order closing options based on the number of popular indicators and hit "Complete" button!

You may use it for the testing of your strategy but don't forget always trade on Demo first!

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1. Introduction

EAB has 7 tabs and their sections.

Template section(for expert users)

This section is the one to use your own script as the template of EA which will be finally exported by EAB.

Variables section(for expert users)

This section is the one to set up the variables which may be used in Variables / Buy strategy / Sell strategy / Close(Buy) strategy / Close(Sell) strategy.

Buy strategy section

This section is the one to build your strategy to buy.

Sell strategy section

This section is the one to build your strategy to sell.

Close(Buy) strategy section

This section is the one to build your strategy to close the position which has been bought by '**Buy strategy**'.

Close(Sell) strategy section

This section is the one to build your strategy to close the position which has been sold by '**Sell strategy**'.

Order options section

This section is the one to set some settings for your EA.

2.Template section(for expert users)

You may use your own script as the template of EA which will be finally exported by EAB.

When you fill the form with your original script which should include the template tags of EAB, the template tags will be replaced with the values / expressions of EAB.

About the template tags, see the list under this section on EAB, please.

3.Variable section(for expert users)

You may set up the variables which may be used in Variables / Buy strategy / Sell strategy / Close(Buy) strategy / Close(Sell) strategy.

They are very useful for Variables / Buy strategy / Sell strategy / Close(Buy) strategy / Close(Sell) strategy, if you'd like to repeatedly use the same setting.

You may repeatedly use the variables as the parameter of logical value(indicator etc.) in each section.

You need select '**Number / Variable**' from their own drop-down-list, then you can set the variable by clicking '**Var #1**' etc. button.

Or you may also just type '**Var1**' etc. manually.

'**Variable**' section almost is the same as the following strategy section, though this section only has a logical value.

4. Buy strategy section

4. Sell strategy section

4. Close(Buy) strategy section

4. Close(Sell) strategy section

you can build your strategies. These section have some settings like the following.

The screenshot shows a strategy builder interface with the following elements:

- 1**: Add / Del buttons.
- 2**: Buy #1 field.
- 3**: AND logical operator dropdown.
- 4**: Moving Average indicator dropdown.
- 5**: = comparison operator dropdown.
- 6**: Moving Average indicator dropdown.
- 7**: Refresh button.
- 8**: Left: Moving Average(Image) label.
- 9**: Configuration panel for the left Moving Average:
 - Symbol: Current
 - Timeframe: Current
 - Period: 14
 - MA shift: 0
 - MA method: Simple
 - Applied price: Close
 - Shift: 0 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).
- 10**: Right: Moving Average(Image) label.
- 11**: Configuration panel for the right Moving Average:
 - Symbol: Current
 - Timeframe: Current
 - Period: 14
 - MA shift: 0
 - MA method: Simple
 - Applied price: Close
 - Shift: 0 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

(1) Add / Del button

This is the button to add / remove a logic.

The addition / removal is LIFO(Last In Last Out).

(2) Logic ID

This is ID of the logic.

In most cases, you needn't care this ID.

However, if you'd like to use variable which may have been set in 'Variable' section, you need remember the ID like 'Var #1' etc. to use it.

(3) Logical operator for each logic

This is the logical operator which combines each logic.

'AND': When all logics are satisfied, the strategy will be executed by EA.

'OR' : When a logic is satisfied even if other logics aren't satisfied, the strategy will be executed by EA.

(4) Left value (logical value)

This is the left value which is connected with (6) by (5).
You can select the logical value(indicator etc.) to build your logic from the drop-down-list.

(5) Logical operator for each logical value

This is the logical operator which connects each logical value(indicator etc.).

(6) Right value (logical value)

This is the right value which is connected with (4) by (5).
You can select the logical value(indicator etc.) to build your logic from the drop-down-list.

(7) Collapse / Expansion button

This is the toggled button to collapse / expand the logic section.

(8) Left value's name

This is the left value's name which has been selected by (4).

(9) Left value's parameter(s)

This is the left value's parameter(s) which has(have) been selected by (4).
You may input some parameter(s) for the indicator etc.

(10) Right value's name

This is the left value's name which has been selected by (6).

(11) Right value's parameter(s)

This is the left value's parameter(s) which has(have) been selected by (6).
You may input some parameter(s) for the indicator etc.

5.Common parameters of logical values

Most of the left / right values have some common parameters.

'Symbol' : This is the symbol for the logical value(indicator etc.) which you'd like to use.

'Current' means a flexible value. The logical value of the chart's symbol to which you'll attach the EA will be used.

'Timeframe': This is the time-frame for the logical value(indicator etc.) which you'd like to use.

'Current' means a flexible value. The logical value of the chart's time-frame to which you'll attach the EA will be used.

'Shift' : This is the ordinal number of the bar for the logical value(indicator etc.) which you'd like to use.

'0' means a current bar's value will be used. **'1'** means the value 1 bar ago will be used. **'n'** means the value *n* bar(s) ago will be used.

Other parameters are the same as each parameters which the logical value(indicator etc.) has.

6.How to build your logic

To build your logic, you can select a left / right value and logical operator.
Logical operator is the operator which compares the left value with the right value.
When the expression is satisfied, the logic will be executed.

'=': This means 'When the left value is equal to the right value'.

'<>': This means 'When the left value isn't equal to the right value'.

'<': This means 'When the left value is less than the right value'.

'>': This means 'When the left value is greater than the right value'.

'<=': This means 'When the left value is equal to / less than the right value'.

'>=': This means 'When the left value is equal to / greater than the right value'.

Buy #1: AND Moving Average > Moving Average

Left: Moving Average([Image](#))

Symbol Current

Timeframe Current

Period 14

MA shift 0

MA method Simple

Applied price Close

Shift 0 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

Right: Moving Average([Image](#))

Symbol Current

Timeframe Current

Period 28

MA shift 0

MA method Simple

Applied price Close

Shift 0 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

This logic means the following strategy.

- * Execute the strategy(Buy)
- * When 14 Moving Average(MA) is greater than 28MA.

This never means golden-cross. This just means 'Buy, **whenever 14MA is greater than 28MA**'.

To build golden-cross strategy, you have to build your strategy which has some logics.

7.How to build your Strategy

You can combine some logics.

Buy #1: < ▾

Left: Moving Average([Image](#))

Symbol ▾

Timeframe ▾

Period

MA shift

MA method ▾

Applied price ▾

Shift *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

Right: Moving Average([Image](#))

Symbol ▾

Timeframe ▾

Period

MA shift

MA method ▾

Applied price ▾

Shift *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

Buy #2: > ▾

Left: Moving Average([Image](#))

Symbol ▾

Timeframe ▾

Period

MA shift

MA method ▾

Applied price ▾

Shift *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

Right: Moving Average([Image](#))

Symbol ▾

Timeframe ▾

Period

MA shift

MA method ▾

Applied price ▾

Shift *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

'Shift: 1' means 'The logical value 1 bar ago', and 'Shift: 0' means 'The current logical value'. This logics means the following strategy.

- * Execute the strategy(Buy)
- * When 14MA 1 bar ago was less than 28MA 1 bar ago.
- * **And** when current 14MA is greater than current 28MA.

This just means golden-cross.

You can combine some logical values and some logics to build your strategy.

8.Order Options section

You can set some settings for your EA.

'SignalMode' :This is the way EA executes a order.

'Lots' :This is the amount of the lot per order.

'Slippage' :This is the pip(s) of the slippage which you can accept, when EA executes new order.

'StopLoss' :This is the pip(s) of the stop-order which is ordered by EA with new order.

'TakeProfit' :This is the pip(s) of the limit-order which is ordered by EA with new order.

'TrailingStop':This is the pip(s) of the trailing-stop-order which is kept renewing by EA while EA has a position.

SignalMode

This is the way EA executes a order.

'Each Tick' :This means **EA may execute a order per tick.**

EA will execute a order whenever the logics of your strategy is satisfied.

However, EA never execute some orders in the same bar. **EA may executes only a pair of orders(open and close) per bar.**

'Complete Bar':This means **EA may execute a order per bar.**

EA will execute a order when the logics of your strategy is satisfied, and when new bar is just opened.

So EA can wait until the signal is exactly fixed. **EA may executes only a order(open or close) per bar.**

Actually, 'Complete Bar' is almost the same as 'Each Tick'.

'Complete Bar' just increases the value of 'Shift' parameter in logical value to their value + 1.

So the following logics are almost the same.

However, they aren't completely the same.

'Each Tick' may execute only a pair of order(openand close) per bar, 'Complete bar' may execute only a order(open or close) per bar.

Code:

```
Logic #1 [AND] [A] [<] [B]
+-----+
|A:           |
| ...         |
| Shift: [1]  |
+-----+
+-----+
|B:           |
| ...         |
| Shift: [1]  |
+-----+
```

SignalMode: Each Tick

Code:

```
Logic #1 [AND] [A] [<] [B]
+-----+
|A:                |
| ...              |
| Shift: [0]       |
+-----+
+-----+
|B:                |
| ...              |
| Shift: [0]       |
+-----+
```

SignalMode: Complete Bar

The examples express the screen of strategy section.

'[...]' means the HTML form to which you should input / select the setting.

'A' / 'B' means the left / right value which you'd like to use in each logic.

9.Export your EA

You can export your strategy as EA.

All you have to do is click '**Comple!**' button, then you'll get your .mq4 file.

To use your EA on MT4, you need move the file to '**experts**' folder in your MT4 folder.

After you compile the file on MQL Editor, you can use your EA.

10.Save / Load your setting of EAB

You may save your setting of EAB.

When you click '**Save**' button, you'll get your .eab files.

You may also load your setting file.

When you click '**Load**' button after you choice the file from '**Brows...**' button, you can build your strategy again.

APPENDIX.How to build typical strategy

There are typical strategies for trading, so you may think '**I wonder how to build them**'.

In this section, you can know how to build them.

Actually, you've already known first strategy(golden-cross), because I've told you it in '**7.How to build your Strategy**' section.

The following examples express the screen of strategy section.

'[...]' means the HTML form to which you should input / select the setting.
 'A' / 'B' means the left / right value which you'd like to use in each logic.
 'N' means the decimal / integral value which you'd like to use.

When A crosses and goes above B(golden-cross)

Code:

```

Logic #1 [AND] [A] [<] [B]
+-----+
|A:                |
| ...              |
| Shift: [1]       |
+-----+
+-----+
|B:                |
| ...              |
| Shift: [1]       |
+-----+
  
```

```

Logic #2 [AND] [A] [>] [B]
+-----+
|A:                |
| ...              |
| Shift: [0]       |
+-----+
+-----+
|B:                |
| ...              |
| Shift: [0]       |
+-----+
  
```

When A crosses and goes below B(dead-cross)

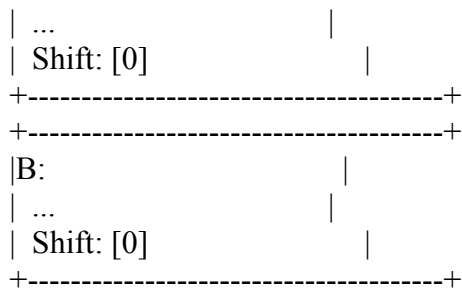
Code:

```

Logic #1 [AND] [A] [>] [B]
+-----+
|A:                |
| ...              |
| Shift: [1]       |
+-----+
+-----+
|B:                |
| ...              |
| Shift: [1]       |
+-----+
  
```

```

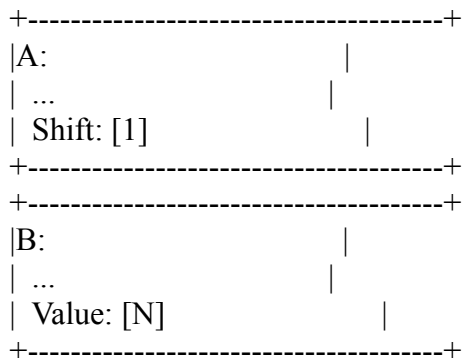
Logic #2 [AND] [A] [<] [B]
+-----+
|A:                |
  
```



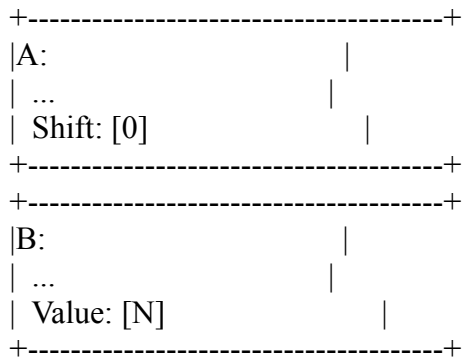
When the value of A becomes N or more

Code:

Logic #1 [AND] [A] [<] [Number/Variable]



Logic #2 [AND] [A] [=>] [Number/Variable]



When the value of A becomes N or less

Code:

Logic #1 [AND] [A] [>] [Number/Variable]



```

+-----+
|B:           |
| ...         |
| Value: [N]   |
+-----+

```

Logic #2 [AND] [A] [<=] [Number/Variable]

```

+-----+
|A:           |
| ...         |
| Shift: [0]   |
+-----+

```

```

+-----+
|B:           |
| ...         |
| Value: [N]   |
+-----+

```

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1. Summary
2. Add 'Buy strategy'
3. Add 'Close(Buy) strategy'
4. Set 'Order options'
5. 'Complete!'
6. Exercise

1. Summary

We create very simple EA this time.

The strategy is the following.

- * Open a position when 14 Moving Average(MA) crosses and goes above 28MA(golden-cross).
- * Close the long position when 14MA crosses and goes below 28MA(dead-cross).

2. Add 'Buy strategy'

We add the strategy to open a long position.

1. Click 'Buy strategy' tab to set the strategy.
2. Click 'Add' button to add new logic, then a logic section is shown.
3. Select 'Moving Average' as the left value.
4. Select '<' as logical operator for each logical value.
5. Select 'Moving Average' as the right value.
6. Input '14' to 'Period' parameter for the left MA.
7. Input '1' to 'Shift' parameter for the left MA.
8. Input '28' to 'Period' parameter for the right MA.
9. Input '1' to 'Shift' parameter for the right MA.

We finished to create the 'Buy #1' logic.

The left value means '14MA 1 bar ago', and the right value means '28MA 1 bar ago'.

This logic means '14MA 1 bar ago is less(<) than 28MA 1 bar ago'.

10. Click 'Add' button again to add new logic.
11. Choice 'AND' as logical operator for each logic to combine the 'Buy #2' logic to with the 'Buy #1' logic.
12. Select 'Moving Average' as the left value.
13. Select '>' as logical operator for each logical value.
14. Select 'Moving Average' as the right value.
15. Input '14' to 'Period' parameter for the left MA.
16. Input '0' to 'Shift' parameter for the left MA.
17. Input '28' to 'Period' parameter for the right MA.
18. Input '0' to 'Shift' parameter for the right MA.

We finished to create the 'Buy #2' logic.

The left value means 'Current 14MA(0 bar ago)', and the right value means 'Current 28MA(0 bar ago)'.

This logic means 'Current 14MA(0 bar ago) is greater(>) than current 28MA(0 bar ago)'.

This strategy means 'Open a long position, when 14MA 1 bar ago is less than 28MA 1bar ago and current 14MA is greater than current 28MA'.

If you'd like to know how to build typical strategy, see 'APPENDIX.How to build typically strategy' section in the guide, please.



3.Add 'Close(Buy) strategy'

We also add the strategy to close the long position which has been opened by 'Buy strategy'.

1. Click 'Close(Buy) strategy' tab to set the strategy.

2. Click 'Add' button to add new logic.
3. Select 'Moving Average' as the left value.
4. Select '>' as logical operator for each logical value.
5. Select 'Moving Average' as the right value.
6. Input '14' to 'Period' parameter for the left MA.
7. Input '1' to 'Shift' parameter for the left MA.
8. Input '28' to 'Period' parameter for the right MA.
9. Input '1' to 'Shift' parameter for the right MA.

We finished to create the 'CloseBuy #1' logic.

You've already known what this logic means.

That's right! This logic means '14MA 1 bar ago is greater than 28MA 1 bar ago'.

10. Click 'Add' button again to add new logic.
11. Choice 'AND' as logical operator for each logic to combine the 'CloseBuy #2' logic to with the 'CloseBuy #1' logic.
12. Select 'Moving Average' as the left value.
13. Select '<' as logical operator for each logical value.
14. Select 'Moving Average' as the right value.
15. Input '14' to 'Period' parameter for the left MA.
16. Input '0' to 'Shift' parameter for the left MA.
17. Input '28' to 'Period' parameter for the right MA.
18. Input '0' to 'Shift' parameter for the right MA.

We finished to create the 'CloseBuy #2' logic.

This logic means 'Current 14MA(0 bar ago) is less than current 28MA(0 bar ago)'.

1

Template Variables Buy strategy Sell strategy **Close(Buy) strategy** Close(Sell) strategy Order options

2, 10
Add Del

3 CloseBuy #1: AND **3** Moving Average **4** > **5** Moving Average

Left: Moving Average(image)
 Symbol Current
 Timeframe Current
6 Period 14
 MA shift 0
 MA method Simple
 Applied price Close
7 Shift 1 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

Right: Moving Average(image)
 Symbol Current
 Timeframe Current
8 Period 28
 MA shift 0
 MA method Simple
 Applied price Close
9 Shift 1 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

11 12 **13 14**
 CloseBuy #2: AND Moving Average < Moving Average

Left: Moving Average(image)
 Symbol Current
 Timeframe Current
15 Period 14
 MA shift 0
 MA method Simple
 Applied price Close
16 Shift 0 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

Right: Moving Average(image)
 Symbol Current
 Timeframe Current
17 Period 28
 MA shift 0
 MA method Simple
 Applied price Close
18 Shift 0 *Input the number of periods back from the current bar(ex. Current = 0, Previous = 1, ...).

This strategy means 'Close a long position, when 14MA 1 bar ago is greater than 28MA 1bar ago and current 14MA is less than current 28MA'.

4.Set 'Order options'

We set the options for the order which is executed by your EA.

- 1.Click 'Order options' tab.
- 2.Choice 'Complete Bar'.
- 3.Set some values if you'd like.

1

Template Variables Buy strategy Sell strategy Close(Buy) strategy Close(Sell) strategy **Order options**

2

SignalMode Complete Bar

Lots 1.0 lots

Slippage 3 pips

StopLoss Enable 30 pips

TakeProfit Enable 60 pips

TrailingStop Enable 30 pips

If you'd like to know what is the 'SignalMode', see '8.Order options section' section in the guide, please.

5.'Complete!'

We finished to creat EA.

When you just click 'Complete!' button, you can get your EA!



To use your EA on MT4, you need move the file to 'experts' folder in your MT4 folder.

After you compile the file on MQL Editor, you can use your EA.

6.Exercise

This EA executes only orders to open / close a long position.

Now, you should add the strategy to open / close a short position, when 14MA and 28MA make dead-cross.

Let's try to add the strategy!

You can read [S.B.T. Forum](#) for more questions and samples.

I hope this guide helps you to build your strategy.

S.B.T. & Mark Larsen