Weekly Daily EMA Aos

Algoritmus Obecný přístup

- Candles
- Timeframes
- Weekly box
- Daily arrow
- Multi-timeframe Moving Average (MA)
- Concrete setups
 - Pullbacks
 - Candle close to MA
 - Candle direction
 - MAs order

Algoritmus Obecný přístup - cBot / indicator

- cBot
 - Obchodní algoritmus obstarávající veškerou logiku
 - Řeší správu obchodů
 - Výpočet při každé změně ceny na trhu
 - OnTick()
 - Volání při změně close price
 - OnStart(), OnStop()

indicator

- Analytický nástroj navržený pro analýzu dat a jejich vizualizaci
- Nemá přístup ke správy obchodů
- Výpočet je prováděn na základě změny dat
- Calculate()
 - Volání při změně předem definovaných datových bodů
- Initialize()

Algoritmus Obecný přístup - cBot / indicator

- cBot
 - Weekly-Daily-EMA

- indicator
 - WeeklyDirection
 - DailyDirection
 - FastMA
 - MediumMA
 - SlowMA
 - RSI
 - •

Exponential Moving Average (EMA) EURUSD M30 (10,40,160)



```
public class A : ISetup
    3 references
    private Algo Algo { get; set; }
    1 reference
    public A(Algo algo)
        Algo = algo;
    public void Setup(Candles candles, bool isAllowed)
        if (!isAllowed)
            return;
        if (candles.W1.Direction == Candle.EDirection.Negative &&
            candles.D1.Direction == Candle.EDirection.Negative)
            if (OpenSellPositionConditions(candles))
                PositionManager positionManager = new(Algo);
                positionManager.SetSellPositionAsync();
        else if (candles.W1.Direction == Candle.EDirection.Positive &&
                 candles.D1.Direction == Candle.EDirection.Positive)
            if (OpenBuyPositionConditions(candles))
                PositionManager positionManager = new(Algo);
                positionManager.SetBuyPositionAsync();
```

```
public bool OpenSellPositionConditions(Candles candles)
    PullBack pullBack = new();
    if (pullBack.MediumMA(TradeType.Sell))
        if (candles.Medium.CloseShortFastMA)
            if (candles.Slow.Direction == Candle.EDirection.Negative || candles.Slow.CloseShortFastMA)
                if (MovingAverages.Slow[0] > MovingAverages.Medium[0] && MovingAverages.Medium[0] > MovingAverages.Fast[0])
                    return true;
    return false;
public bool OpenBuyPositionConditions(Candles candles)
    PullBack pullBack = new();
    if (pullBack.MediumMA(TradeType.Buy))
        if (candles.Medium.CloseLongFastMA)
            if (candles.Slow.Direction == Candle.EDirection.Positive || candles.Slow.CloseLongFastMA)
                if (MovingAverages.Slow[0] < MovingAverages.Medium[0] && MovingAverages.Medium[0] < MovingAverages.Fast[0])</pre>
                    return true;
    return false;
```

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    public void Setup(Candles candles, bool isAllowed)
        if (!isAllowed)
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        if (candles.W1.Direction == Candle.EDirection.Negative &&
            candles.D1.Direction == Candle.EDirection.Negative)
            if (OpenSellPositionConditions(candles))
                PositionManager positionManager = new(Algo);
                positionManager.SetSellPositionAsync();
        else if (candles.W1.Direction == Candle.EDirection.Positive &&
                 candles.D1.Direction == Candle.EDirection.Positive)
            if (OpenBuyPositionConditions(candles))
                PositionManager positionManager = new(Algo);
                positionManager.SetBuyPositionAsync();
```





```
/// <summary>
/// Asynchronously sets sell positions by placing limit orders for a specified number of orders.
1 reference
public void SetSellPositionAsync()
    for (int i = 0; i < amountOfOrders; i++)</pre>
        Interlocked.Increment(ref _numberOfPendingPlaceOrderOperations);
        // Place a limit sell order with specific parameters and callback function.
        PlaceLimitOrderAsync(TradeType.Buy,
                               SymbolName,
                               Volume,
                               Symbol.Bid + (Symbol.PipSize * 5),
                               "Trade_" + i,
                               0nOrderPlaced);
/// <summary>
/// Callback method executed when an order is successfully placed.
/// </summary>
/// <param name="result">The result of the order placement operation.</param>
2 references
private void OnOrderPlaced(TradeResult result)
    if (Interlocked.Decrement(ref _numberOfPendingPlaceOrderOperations) == 0)
        Algo.Print("All orders have been placed.");
```

```
/// <summary>
/// Asynchronously cancels all pending orders with labels containing "Trade_".
/// </summary>
0 references
private void CancelAllPendingOrdersAsync()
    var pendingOrders = Algo.PendingOrders.Where(o => o.Label.Contains("Trade_")).ToArray();
    foreach (var order in pendingOrders)
        Interlocked.Increment(ref _numberOfPendingCancelOrderOperations);
        // Cancel a pending order with a specific callback function.
        CancelPendingOrderAsync(order, OnOrderCancel);
/// <summary>
/// Callback method executed when an order is successfully canceled.
/// </summary>
/// <param name="result">The result of the order cancellation operation.</param>
private void OnOrderCancel(TradeResult result)
    if (Interlocked.Decrement(ref _numberOfPendingCancelOrderOperations) == 0)
        Algo.Print("All orders have been canceled.");
```