

STRATEGY & ECONOMIC RATIONALE

Buy SPY ETF 1 day (some papers say 4 days) before the end of the month and sell the 3rd trading day of the new month at the close.

BUY	SELL	
(see above)	(see above)	

PARAMETER & VARIABLES

PARAMETER	VALUE		
MARKETS TRADED	Equity		
FINANCIAL INSTRUMENTS	CFDs, ETFs, funds, futures, options		
REGION	United States		
PERIOD OF REBALANCING	Daily		
NO. OF TRADED INSTRUMENTS	1		
WEIGHTING	Equal weighting		
LOOKBACK PERIODS	N/A		
LONG/SHORT	Long only		

ALGORITHM

from AlgorithmImports import *

```
class TurnoftheMonthinEquityIndexes(QCAlgorithm):
   def Initialize(self):
        self.SetStartDate(1998, 1, 1)
        self.SetCash(100000)
        self.symbol = self.AddEquity("SPY", Resolution.Daily).Symbol
        self.sell_flag = False
        self.days = 0
        self.Schedule.On(self.DateRules.MonthStart(self.symbol),
self.TimeRules.AfterMarketOpen(self.symbol), self.Rebalance)
        self.Schedule.On(self.DateRules.MonthEnd(self.symbol),
self.TimeRules.AfterMarketOpen(self.symbol), self.Purchase)
   def Purchase(self):
        self.SetHoldings(self.symbol, 1)
   def Rebalance(self):
        self.sell_flag = True
   def OnData(self, data):
        if self.sell_flag:
            self.days += 1
```

```
if self.days == 3:
    self.Liquidate(self.symbol)
    self.sell_flag = False
    self.days = 0
```

BACKTESTING PERFORMANCE

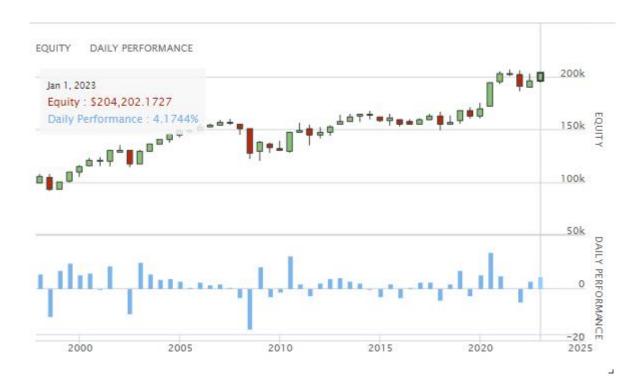


Fig 1. Overall Performance

PSR	0.002%	Sharpe Ratio	0.311
Total Trades	604	Average Win	1.76%
Average Loss	-1.72%	Compounding Annual Return	2.871%
Drawdown	24.600%	Expectancy	0.152
Net Profit	104.202%	Loss Rate	43%
Win Rate	57%	Profit-Loss Ratio	1.02
Alpha	0.009	Beta	0.202
Annual Standard Deviation	0.072	Annual Variance	0.005
Information Ratio	-0.299	Tracking Error	0.144
Treynor Ratio	0.111	Total Fees	\$3694.73
Estimated Strategy Capacity	\$870000000.00	Lowest Capacity Asset	SPY R735QTJ8XC9X

Fig 2. Performance Metrics

Not Over Thinking – where I share my journey to algorithmic trading and investments in shortest words possible

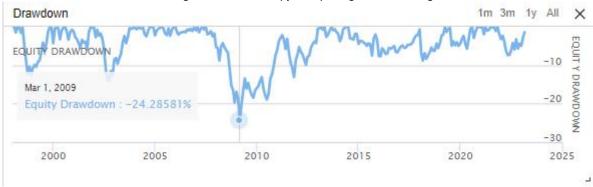


Fig 3. Drawdown