

LFD 5.4 (a) (L) There are a few things wrong with this. Mainly, the M should not be 500. We are currently looking at 500 stocks that have lasted For 50 years. At the start of this time, there were in the indexagow. The fact that we looked at only the \$000 biggest componies today is sampling bias.

(ii) M=50,000 since any of the \$0,000 stocks can make it into the S&P. This makes the bound 100x bigger. 100 ×0.045 = 45 (D(i) Same problem as (a). You can't base your decision to buy a stock based on results on a subset of 500 stocks. Further, these are 500 stocks that have survived to today and grown to one of the 500 biggest companies. Sampling bias (ii) We know the retrospective performance of the current S&P stocks is an overestimate of buy and hold performance. If we included all 50,000 stocks and accounted for stocks stopping training we could then say something