

```
maxProfit :: [Int] -> Int
maxProfit prices = maxProfitHelper prices (maxBound :: Int) 0
  where
    maxProfitHelper [] _ maxProfit = maxProfit
    maxProfitHelper (p:ps) minPrice maxProfit =
      let newMinPrice = min minPrice p
          profit = p - newMinPrice
          newMaxProfit = max maxProfit profit
      in maxProfitHelper ps newMinPrice newMaxProfit
main = do
  let prices = [7, 1, 5, 3, 6, 4]
  let result = maxProfit prices
  putStrLn $ "Maximum profit: " ++ show result
```