hw10.R

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```r
x <- function(n){
    sd(rnorm(n = n))
}

foo <- function(nn){
    mean(replicate(100000, x(nn)))
}

foo.vec <- Vectorize(foo)
nums <- floor(c((1:10)*15))
sds <- foo.vec(nums)
plot(sds~nums, ylim = c(0.98, 1),
    xlab = "Number of samples", ylab = "Estimated SD", pch = 19)
abline(h = 1, lty = 3)
legend("bottomright", legend = "true sd", lty = 3)
```