Log Likelihoods for R lab session

Likelihood For Problem 2

y is a vector containing a variable.

$$L(\mu|y_i) = \prod_{i=1}^n exp(\frac{-(Y_i - \mu)^2}{2})$$

$$logL(\mu|y_i) = -\frac{1}{2}(\sum_{i=1}^n y_i^2 - 2\mu \sum_{i=1}^n y_i + (N \times \mu^2))$$

Using "optimize", find the value of μ that maximizes this function.