Recall:
$$H(|y|)$$
 $P(Y_1=2) = E[P(Y_1=2|p)]$

$$H(|X|) = N(|M|, |T|^2)$$
 $P(|Y_{new}>15\%) = E[P(Y_{new}>17\%)]$

$$Y_{new} \sim N(|M|, |\sigma_1^2)$$
 $I - pmorm(.15, |\mu|, ..., |T|)$

$$Thorm(N, |M|, |T|)$$