

1. 1st pass we found 2 possible  
 words: 2-nd, 3-nd, 4-nd  
 $P_2(w) = 1$   
 $P_2(w) = 0$

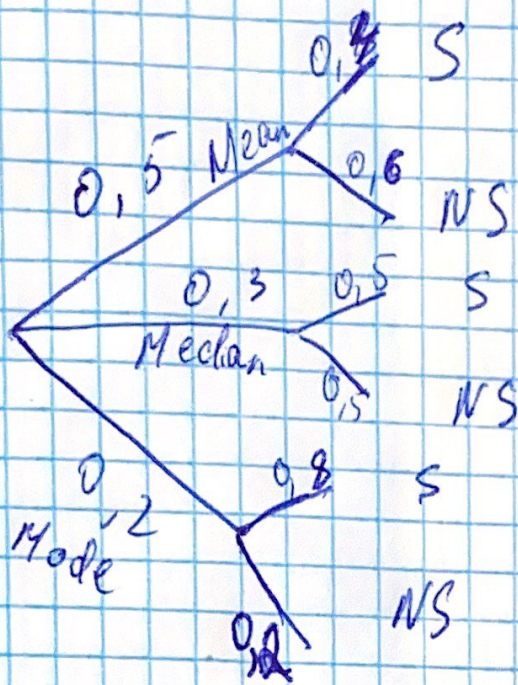
probability of 2-nd =  $\frac{1}{2} \cdot 1 + \frac{1}{2} \cdot 0 = \frac{1}{2}$

we found 2 possible words: 2-nd, 3-nd, 4-nd  
 probability of 2-nd =  $\frac{1}{2} \cdot 1 + \frac{1}{2} \cdot \frac{99}{99} =$

$= 0,7474$



3.



$$P(\text{Mean} | S) = \frac{0,5 \cdot 0,4}{0,5 \cdot 0,4 + 0,3 \cdot 0,5 + 0,2 \cdot 0,8} = \frac{0,2}{0,51} \approx 0,39$$

$$P(\text{Median} | S) = \frac{0,3 \cdot 0,5}{0,51} \approx 0,29$$

$$P(\text{Mode} | S) = \frac{0,2 \cdot 0,8}{0,51} \approx 0,31$$

The least liked is Median :