Quiz #3

- Input: A stream x_1, \dots, x_n , each x_j has a weight $w_j > 0$
- Algorithm
 - let W be the sum of $x_i's$ seen so far. Select the current element x_{j+1} by probability $\frac{w_{j+1}}{W+w_{j+1}}$
- Need to show if x_i (i < j) is in reservoir then selected as a sample with probability $\frac{w_i}{W + w_{i+1}}$
- How to handle *k samples* without replacement?