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(b) Use your routine from part (a), write a routine to calculate  $N_j$  by counting non-empty bins. Plot  $D_{\text{capacity}}$  from the fast convergence equation 5.55 vs the midpoint  $\frac{1}{2}(\log_{i+1} + \log_i)$ . Does it appear to extrapolate to  $D = 1$  for