A prediction model that is composed of a set of models is called a model ensemble. For this assignment we were supposed to find the probability of a model ensemble that uses simple majority voting. In our case we have each question with differing error rate and varying models. I used survival function from scipy library because survival function is defined as 1 - cdf, but is sometimes more accurate. It is similar if we had used cumulative distribution function where instead of k = np.floor(n/2), we would have used k = np.ceil(n / 2) resulting in same output. We changed the ceiling input with floor input, element-wise when working with survival function.