Individual Quiz

Name: _____

Write a function that calculates the Gini Index of Purity of a list of proportions
$$[p_0, p_1, p_2, \ldots, p_{n-1}].$$
The Gini Index of Purity for such a list is defined to be
$$p_0(1 - p_0) + p_1(1 - p_1) + p_2(1 - p_2) + \ldots + p_{n-1}(1 - p_{n-1}).$$