

Tenth Problem of the Week, due Thursday 11/16

The country “Islas” is comprised by n islands. The most populous island is Centreland and all islands have different population size.

The government wants to build bridges among the islands in a way each pair of islands is not joined by more than a bridge. Also, it is necessary to satisfy the following conditions:

- Always, it is possible to go from Centreland to any other island traveling by the bridges.
- If you take a trip from Centreland to any other island, the population size of the visited islands is getting smaller.

In how many ways can the bridges be built?