The Colored Bottles of Lurano

An old town in a far away island, **Lurano**, had some **artisans specialized in the making of fine glass bottles in different shapes and colors**. We want to **study the weight of those bottles and the features that influence their weight**.

But... you have **access to a somehow limited information about those bottles**, gathered by those who went to the island. You have a **list of the properties of 10000 bottles**, without their weight. **You also have a list of the weight comparison for many pairs of those bottles**.

**This weight comparison was done in a very rudimentary way**. **It says only if the first bottle of the pair is heavier or lighter than the second**. **If their weights are close enough (less than 0.1 kg of difference)** the comparison is "**undefined**".

And you have a small **list of 20 bottles whose weight is known** - **these bottles are also present in the other files.**

The **known properties about those bottles are the name of their producer, their color and shape, their width, their height and their age (in months).** Every property may (or may not) influence the weight of the bottle - even the color of the glass!

You are asked to do the following:

1. **Obtain a good estimation for the weight of all those bottles**.
2. Write a script in python that, when given a csv file like "bottles.csv", generate a csv file "bottles\_with\_weight.csv" that have a **column with the weight estimation for each bottle based on their properties**.