

Problem

In ancient Egypt, fractions like $\frac{3}{4}$ or $\frac{2}{5}$ were not written as we write them today.

All fractions were written as the addition of unit fractions. A unit fraction is always in the form $\frac{1}{x}$.

For example:

- $\frac{3}{4}$ would be $\frac{1}{2} + \frac{1}{4}$
- $\frac{2}{5}$ would be $\frac{1}{4} + \frac{1}{10} + \frac{1}{20}$

Ancient Egyptians wouldn't use the same unit fraction more than once:

- $\frac{2}{5}$ would **not** be written as $\frac{1}{5} + \frac{1}{5}$

Asim is an Egyptian grocer. He sells his goods by weight and has scales with deben weights.

Deben is a unit of weight that was used by ancient Egyptians.

Asim only has the following weights available – one of each:



A customer has requested the following herbs and spices:

- $\frac{5}{8}$ of a deben of cinnamon
- $\frac{2}{3}$ of a deben of pepper
- $\frac{3}{10}$ of a deben of basil
- $\frac{5}{12}$ of a deben of saffron
- $\frac{4}{5}$ of a deben of thyme
- $\frac{17}{20}$ of a deben of rosemary
- $\frac{25}{24}$ of a deben of mint



How would Asim use the weights to measure out each item?

