



Peaches Today, Peaches Tomorrow...

(i) A little monkey had 60 peaches.

On the first day, he kept $\frac{3}{4}$ of his peaches, gave the rest away, then ate one.

On the second day, he kept $\frac{7}{11}$ of his peaches, gave the rest away, then ate one.

On the third day, he kept $\frac{5}{9}$ of his peaches, gave the rest away, then ate one.

On the fourth day, he kept $\frac{2}{7}$ of his peaches, gave the rest away, then ate one.

On the fifth day, he kept $\frac{2}{3}$ of his peaches, gave the rest away, then ate one.

How many peaches did he have left?

(ii) A little monkey had 75 peaches.

Each day, he kept a fraction of his peaches, gave the rest away, and then ate one.

These are the fractions he decided to keep:

$$\frac{1}{2} \quad \frac{1}{4} \quad \frac{3}{4} \quad \frac{3}{5} \quad \frac{5}{6} \quad \frac{11}{15}$$

In which order did he use the fractions so that he was left with just one peach at the end?

(iii) The monkey always keeps a fraction of his peaches each day, gives the rest away, and then eats one.

Each fraction must be in its simplest form and must be less than 1, and the denominator is never the same as the number of peaches left.

Starting with fewer than 100, what is the longest you can make the peaches last?