P24

Lets take the first example "cosc 3320"

```
c o s c _ _ ]
3 3 2 0 _ _ ]  2 "width"
```

Imagine the width was 4, the container would
look like:

```
c o s c _ _    Output = 0
3 3 2 0 _ _    output = 1
c o s c _ _ ]
3 3 2 0 _ _ ]  This ends up repeating.   Output = 1
                                         output = 2
```

Since we now know that at some point, there will
be a pattern that repeats, we can use dp.

How?

Say we fill the container until we reach a new "row"
and the next word is the word we started with. We will cache
how many times the text has fit in a vector (output).
So for width = 4

```
c o s c _ _    first word is "cosc",  int count = 0  output[0] = count
3 3 2 0 _ _                           count = 1       output[1] = count
_ _ _ _ _ _    next word is "cosc", since we now know that theres a total
_ _ _ _ _ _                          of 2 repeating rows (lets call this "interval")
                                     we can:  Output[rowIndex - interval] + count
                                     for the following rows. The final output
                                     is 2 since we had 2 whole "cosc 3320".
```