Powerful numbers

General information

Premature abortion of loops

In Python you can use the statements **break** and **continue** to abort a loop before it has come to completion. In general, however, these statements are considered bad programming style.

One situation where you may want a premature abortion of a loop occurs when you want to find a solution by trying all possible cases, and stop as soon as one solution has been found. Instead of using **break** or **continue** in this case, it is better to use an additional Boolean variable that indicates whether or not the solution has already been found.

```
>>> found = False
>>> while not found:
... if (solution found): #solution found represents a condition
... found = True
...
```

As soon as the solution has been found (represented here by the fact that the condition *solution found* evaluates to True), the variable found is assigned the value True. As a result, the while-loop ends the next time the while-conditions is evaluated after the current iteration.

Cowsay

General information

Escaping literal backslashes

In Python a backslash is used inside a string to escape the next character in the string, so that this character loses its special meaning (for example to put a double quote inside a string that is enclosed itself in between a pair of double quotes) or to give a special meaning to the next character (such as the end of line that is represented by the character $'\n'$ or a tab that is represented by the character $'\t'$).

Because this gives a special meaning to a backslash inside a string (used to escape characters), a literal backslash inside a string must be represented by two successive backslashes $('\)$, where the first backslash serves as the escape symbol and the second backslash is the character that is given its literal meaning by escaping it.

Remove leading and/or trailing whitespace

In Python you can use the string method strip to remove leading and trailing whitespace (spaces, tabs and newlines). In case you only want to remove leading whitespace, you can use the string method lstrip. In case you only want to remove trailing whitespace, you can use the string method rstrip. You can also pass an argument to these string methods, that indicates which leading and/or trailing characters have to be removed. For more details about these string methods, we refer to The Python Standard Library.

```
>>> text = ' This is a text '
>>> text.strip()
'This is a text'
>>> text.lstrip()
'This is a text '
```

```
>>> text.rstrip()
' This is a text'
```

Remarks

String repetition

To repeat a given string a fixed number of times, you can multiply that string with an integer. As with the multiplication of numbers, this uses the * operator. The order of the string and the integer does not matter in the multiplication

```
>>> 'a' * 3
'aaa'
>>> 5 * 'ab'
'ababababab'
```

This is very handy in case the number of repetitions of the string is not known beforehand, but for example can be retrieved from a variable.

```
>>> repetitions = 4
>>> repetitions * 'abc'
'abcabcabcabc'
```

Wepe speapeak p

Specific information

Een mogelijke strategie die je voor deze opgave kunt gebruiken is de volgende. Je itereert over de posities van de regel en je werkt met 2 variabelen. De eerste variabele zal de uiteindelijke gedecodeerde tekst bevatten en in de tweede variabele houd je de klinkergroep bij. Wanneer je dan een p tegenkomt en je hebt een *niet lege klinkergroep*, kun je die klinkergoep verwerken en enkele posities verder springen.

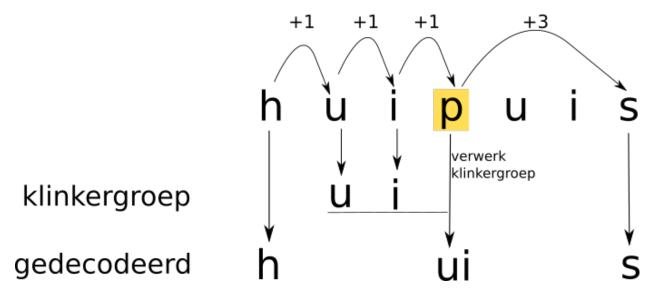


Figure 1: Wepe sprepekepen p