
Basic (2)

P25788_en

You have to program several functions. In each case, few lines of code are enough.

1. Write a function *vowel_consonant(s)* that given a string *s* returns the number of vowels and consonants that appear as characters in *s*. We assume all characters of *s* are letters.
2. Write a function *delete_digits(s)* that returns the string obtained after ruling out the digit characters of *s*.
3. Write a function *switch(s)* that given a string *s* returns the string obtained after switching lowercase to uppercase letters and the other way around. Non letter characters do not change. *Warning*: do not use the *swapcase* string method.
4. Write a function *countdown(n)* that given an integer *n* greater than zero prints the count down until 0.
5. Write a function *powers_of_2(n)* that given a natural *n* prints the *n* first powers of 2.

Scoring

Every function counts 20 points.

Sample session

```
>>> vowel_consonant("SpartacUs")
(3, 6)
>>> delete_digits("#Pelham 1-2-3#")
#Pelham --#
>>> switch("#Pelham 1-2-3#")
#pELHAM 1-2-3#
>>> countdown(7)
7 6 5 4 3 2 1 0
>>> powers_of_2(6)
1 2 4 8 16 32
```

Problem information

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