

Solution_01

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1 Solutions for Exercises in 01_NumbersStringLists

1.1 Exercise 1

The operator for raising one value to the power of another is `**`. Try calculating 4^3 , $2 + 3.4^2$. What is the type of the output in each case, and does it make sense?

```
[7]: a = 4**3
      print(a)
      print(type(a))
```

```
64
<class 'int'>
```

```
[9]: b = 2+(3.4)**2
      print(b)
      print(type(b))
```

```
13.559999999999999
<class 'float'>
```

1.2 Exercise 2

Given a string such as the one below, make a new string that does not contain the word `egg`:

```
[23]: a = "Hello, egg world!"
```

Version 1 Splits `a` at each space. All elements except the `egg` at position 1 are put together.

```
[20]: b=a.split()
      print(b)
      print(b[0]+b[2])
```

```
['Hello,', 'egg', 'world', '!']
Hello,world
```

Version 2 a is also splitted at all spaces and then every second world in the array is used.

```
[28]: b=a.split()
      b= b[::2]
      print(b)
      print(b[0]+b[1])
```

```
['Hello,', 'world!']
Hello,world!
```

Version 3 (independed of the position of egg)

```
[32]: a = 'Hello, world egg!'

      # splits at egg
      d = a.split('egg')
      print(d)

      # merge all strings from the array together
      s = ''.join(d)
      s
```

```
['Hello, world ', '!']
```

```
[32]: 'Hello, world !'
```