



Feast Your Hands



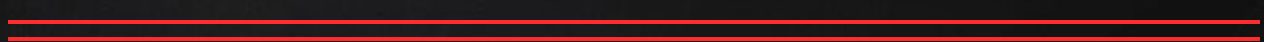
1) Use `map()` to convert a list of strings `["1", "2", "3"]` to a list of integers.

2) Write a `map()` function to add 10 to each element in the list `[0, 5, 10, 15]`.

3) Write a `map()` function to convert temperatures from Celsius to Fahrenheit for the list `[0, 20, 37, 100]`.

$$(^{\circ}\text{F} = ^{\circ}\text{C} * 1.8 + 32)$$

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4) Use `filter()` to remove `None` values from the list `[1, None, 3, None, 5]`.

5) Write a `filter()` function to extract numbers divisible by 3 from `[1, 3, 4, 6, 9, 12]`.

6) Use `filter()` to keep only positive numbers from `[-2, -1, 0, 1, 2]`.

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7) Write a `filter()` function to select elements from a list of dictionaries where the key 'age' is greater than 25,

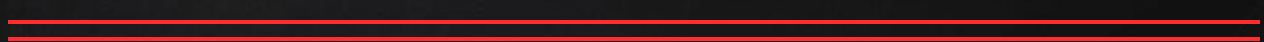
Example:

```
[{'name': 'Alice', 'age': 30}, {'name': 'Bob', 'age': 20}].
```

8) Use `reduce()` to find the sum of all numbers in the list

```
[1, 2, 3, 4, 5].
```

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- 9) Write a `reduce()` function to find the product of all numbers in `[2, 3, 4]`.
- 10) Use `reduce()` to find the maximum value in the list `[3, 7, 2, 9, 1]`.
- 11) Write a `reduce()` function to concatenate all strings in `["Hello", " ", "World"]`.

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12) Use `reduce()` to merge a list of dictionaries into a single dictionary, e.g., `[{'a': 1}, {'b': 2}, {'c': 3}]`

13) Write a `reduce()` function to compute the cumulative sum of squares for `[1, 2, 3]` (i.e., $1^2 + 2^2 + 3^2$).

Notes: To use `reduce()`, you need to import it from `functools` (e.g., `from functools import reduce`).

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