

For this lab, the goal is just to get familiar with some basic operations covered in the class. There are a few short practices. Notes:

- (1) **No loop** or anything like that is to be used.
- (2) Use only functions mentioned in the class so far, unless noted otherwise.

Practices:

1. Given any vector, convert it to a row vector.
2. Given any vector, convert it to a column vector.
3. Given a vector v of length 4 representing two fractal numbers, give the text output of its fractal sum:

Example: $v: 3 \ 7 \ 5 \ 2$ Your output: $3/7+5/2=41/14$

Note: Use `fprintf` for this task.

4. Compute $1/1 + 1/2 + 1/3 + \dots + 1/999 + 1/1000$.
5. Compute $1 + 1/1! + 1/2! + 1/3! + \dots + 1/100!$. (Note: `cumprod` is useful here.) Compare the result with `exp(1)`.
6. Make $n \times n$ matrices (n given in a variable) that look like all zeros surrounded by a layer of ones. Example for $n=5$:

```
1 1 1 1 1
1 0 0 0 1
1 0 0 0 1
1 0 0 0 1
1 1 1 1 1
```