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Tartalomjegyzék

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Exercises

Dynamic programming

Greatest common divisor

Implement the Euclidean algorithm with recursion and without recursion!

Pascal triangle

Write a function that returns the n^{th} row of the Pascal triangle as a list.

Paint Bucket Tool

Save the following "http://wiki.math.bme.hutext"http://wiki.math.bme.hu as a list of lists in python!

```

.....
..#####.....
..#.....#.....
..#.....#.....
..#.....#.....
..#.....#.....
..#.....#.....
..#.....#####.....
..###.....##.....#.....
..#..##.....##.....#.....
..#...##.....##.....#.....

```


Hint:

- Store a dictionary of keys which are pressed at a given time.
- if a key is released, and it was in the dictionary, then that letter was entered.
 - ◆ in this case, erase that key from the dictionary.
- store the state of the SHIFT key (up or down)
- There is also a BACKSPACE key!
- You can see the [keycodes here](#)

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