

# Map and Lambda Function ★

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Problem

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Let's learn some new Python concepts! You have to generate a list of the first  $N$  fibonacci numbers,  $0$  being the first number. Then, apply the map function and a lambda expression to cube each fibonacci number and print the list.

## Concept

The `map()` function applies a function to every member of an iterable and returns the result. It takes two parameters: first, the function that is to be applied and secondly, the iterables.

Let's say you are given a list of names, and you have to print a list that contains the length of each name.

```
>> print (list(map(len, ['Tina', 'Raj', 'Tom'])))  
[4, 3, 3]
```

Lambda is a single expression anonymous function often used as an inline function. In simple words, it is a function that has only one line in its body. It proves very handy in functional and GUI programming.

```
>> sum = lambda a, b, c: a + b + c  
>> sum(1, 2, 3)  
6
```

## Note:

Lambda functions cannot use the return statement and can only have a single expression. Unlike `def`, which creates a function and assigns it a name, lambda creates a function and returns the function itself. Lambda can be used inside lists and dictionaries.

## Input Format

One line of input: an integer  $N$ .

## Constraints

$$0 \leq N \leq 15$$

## Output Format

A list on a single line containing the cubes of the first  $N$  fibonacci numbers.

## Sample Input



### Sample Output

```
[0, 1, 1, 8, 27]
```

### Explanation

The first **5** fibonacci numbers are **[0, 1, 1, 2, 3]**, and their cubes are **[0, 1, 1, 8, 27]**.

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Language

Python 3



```
1 cube = lambda x: x*x*x# complete the lambda function
2
3 def fibonacci(n):
4     # return a list of fibonacci numbers
5     a = [0,1]
6     for i in range(2,n):
7         a.append(a[i-2] + a[i-1])
8     return(a[0:n])
9
10
11 if __name__ == '__main__':
12     n = int(input())
13     print(list(map(cube, fibonacci(n))))
```

Line: 9 Col: 1

Upload Code as File

☐ Test against custom input

Run Code

Submit Code



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✓ Test case 0

✓ Test case 1

✓ Test case 2

✓ Test case 3

✓ Test case 4

✓ Test case 5

✓ Test case 6

Compiler Message

Success

Input (stdin)

15

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Expected Output

1[0, 1, 1, 8, 27]

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