# Arrays ★

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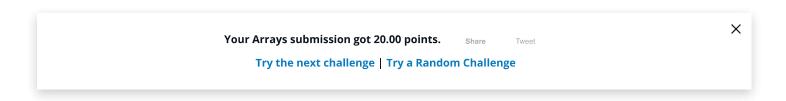| Problem | Submissions | Leaderboard | Editorial 🔒 |

The NumPy (Numeric Python) package helps us manipulate large arrays and matrices of numeric data.

To use the NumPy module, we need to import it using:

```
import numpy
```

**Arrays**

A NumPy array is a grid of values. They are similar to lists, except that every element of an array must be the same type.

```
import numpy

a = numpy.array([1,2,3,4,5])
print a[1]          #2

b = numpy.array([1,2,3,4,5],float)
print b[1]          #2.0
```

In the above example, `numpy.array()` is used to convert a list into a NumPy array. The second argument (float) can be used to set the type of array elements.

**Task**

You are given a space separated list of numbers.
Your task is to print a reversed NumPy array with the element type `float`.

**Input Format**

A single line of input containing space separated numbers.

**Output Format**

Print the reverse NumPy array with type float.
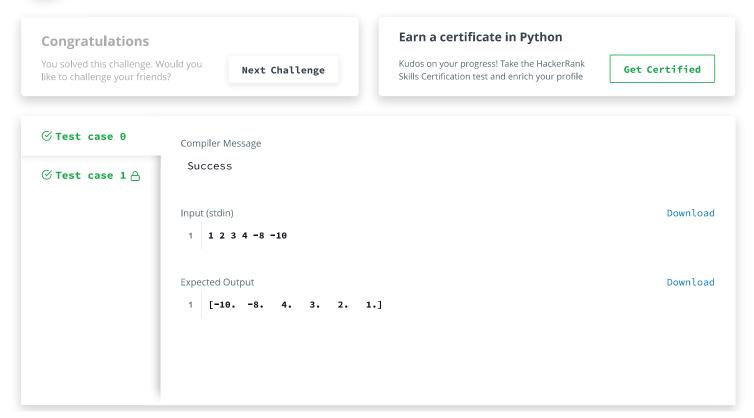
**Sample Input**

```
1 2 3 4 -8 -10
```

**Sample Output**

```
[-10.  -8.   4.   3.   2.   1.]
```

Change Theme

```python
1   import numpy
2
3   def arrays(arr):
4       return numpy.array(arr, float)[::-1]
5
6   arr = input().strip().split(' ')
7   result = arrays(arr)
8   print(result)
```

Line: 8 Col: 14

⬆ Upload Code as File     ☐ Test against custom input

Run Code     Submit Code

You have earned 20.00 points!
63/115 challenges solved.

**55%**

### Congratulations

You solved this challenge. Would you like to challenge your friends?

Next Challenge

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⊘ **Test case 0**

⊘ **Test case 1** 🔒

Compiler Message

Success

Input (stdin)                                                      Download

```
1   1 2 3 4 -8 -10
```

Expected Output                                                    Download

```
1   [-10.  -8.   4.   3.   2.   1.]
```