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# Normalizing a vector

1分

Given  $p$  and a vector  $x$  in  $\mathbb{R}^3$ , compute a new vector  $y$  so that  $y = \alpha x$  and  $\|y\|_p = 1$ .

*Hint:* Use `numpy.abs()` to find the absolute value of a number.

*Hint 2:* Calling `numpy.linalg.norm()` is not allowed.

INPUTS:

- $x$ , a numpy array of shape  $(3,)$
- $p$ , a  $p$  value of a norm

OUTPUTS

- $y$ , a multiple of  $x$  so that  $\|x\|_p = 1$

评分代码 (点击查看)

起始代码 (点击查看)

回答\*

```
1 import numpy as np
```

按F9以打开/关闭全屏模式. 在 用户信息 (/profile/) 中设置编辑器模式.

保存回答

提交用于评分的回答

(您仍然可以在提交本问题后修改回答)