Swapping Rows

1分

Consider the matrix (A)

$$A = \begin{matrix} 2 & 3 & 4 \\ 4 & 8 & 12 \\ 1 & 5 & 5 \end{matrix}$$

Use the function (already implemented):

```
def swap_rows(mat, i, j):
    temp = mat[i].copy()
    mat[i] = mat[j]
    mat[j] = temp
```

to determine the factor (call this `fac`) and the row-swapped matrix (sill `A`) that you would use in the first elimination step.

INPUT:

- `A` : a matrix as a numpy array
- `swap_rows` : a function to compute a row swap

OUTPUT:

- `A` : a matrix with (potentially) swapped rows
- `fac` : the factor used to do the first row reduction

评分代码 (点击查看)

起始代码 (点击查看)

回答*

```
1  import numpy as np
2  import numpy.linalg as la
```

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)