

Places or Faces?

You are provided the pixel values from a set of images. These images may belong to either of these classes:

- (1) **Portraits or faces of people.** The object in focus is a person and there is just one clear face visible in each of these images.
- (2) **Images of landscapes, city skylines, etc.** - places, building or monuments.

Identify the two classes of images as 'face' or 'place' respectively.

 abrahamlincoln.jpg 14.1 kB	 bangalorelake.jpg 8.8 kB	 benazir.jpg 13.4 kB	 bhutan.jpg 14.5 kB	 bse.jpg 10.4 kB
 chandrika.jpg 18.4 kB	 charles.jpg 18.1 kB	 frankfurtairport.jpg 12.6 kB	 gandhi.jpg 12.7 kB	 gohchoktong.jpg 12.1 kB
 karunanidhi.jpg 13.1 kB	 lenin.jpg 11.4 kB	 london.jpg 26.7 kB	 marylincoln.png 251.1 kB	 merkel.jpg 9.3 kB
 merkel2.PNG 118.5 kB	 mexico.jpg 9.9 kB	 newyork1.JPG 16.3 kB	 schiphol.jpg 8.9 kB	 tokyo1.jpg 115.6 kB
 tokyo2.jpg 100.7 kB	 westminster.jpg 13.3 kB			

Input Format

A 2D Grid of pixel values will be provided (in regular text format through STDIN), which represent the pixel wise values from the images (which were originally in JPG or PNG formats). Each pixel will be represented by three comma separated values in the range 0 to 255 representing the **Blue, Green and Red** components respectively. There will be a space between successive pixels in the same row.

Input Constraints

None of the original JPG or PNG images exceeded 150kB in size. The 2D grids of pixels representing these images will not exceed 5MB.

Sample Input

This is for the purpose of explanation only. The real inputs will be much larger than this.

```
0,0,200 0,0,10 10,0,0
90,90,50 90,90,10 255,255,255
100,100,88 80,80,80 15,75,255
```

The above is an image represented by 3x3 pixels. For each pixel the Blue, Green and Red values are provided, separated by commas. The top left pixel has (Blue=0,Green=0,Red=200). The top-right pixel has (Blue=10,Green=0,Red=0). The bottom-right pixel has (Blue=15,Green=75,Red=255). The bottom-left pixel has (Blue=100,Green=100, Red=88).

Output Format

Just one word: 'face' or 'place'. Do NOT include the single quote marks.

Sample Output (Please note that the sample input shown above does not actually contain a face!)

```
face
```

A Note on the Test Cases and Sample Tests

The test cases have been generated from the 22 images shown in the picture at the top. The two test cases which run as sample test cases when you compile and test, are the pictures of Abraham Lincoln and that of a lake in Bangalore, i.e. 'face' and 'place' respectively. These have been generated from the first 2 thumbnails in the collection of thumbnails shown at the top of this problem statement.

Libraries

Libraries available in our Machine Learning/Real Data challenges will be enabled for this contest and are listed [here](#). Please note, that occasionally, a few functions or modules might not work in the constraints of our infrastructure. For instance, some modules try to run multiple threads (and fail). So please try importing the library and functions and cross checking if they work in our online editor in case you plan to develop a solution locally, and then upload to our site.