Test 2

Task:

Write an algorithm that recognizes the standing position of a person in the pictures. There are 4 positions of people standing on:

1. the side position (no difference in full height or non-full height)
2. back position (no difference in full height or non-full height)
3. front (full height)
4. front (non-full height).

Note: A person standing at full height is the position encompassing one's entire body; top to bottom. For example, if you can see a person's head in the picture, but you can't see his/her shoes/feet, then this is a non-full height category.

Sample:

Input: Output: side/сбоку

Input: Output: back/сзади

Input: Output: front (full height)/спереди(на весь рост)

Input: Output: front (non full height)/спереди (не на весь рост)

Criterion

- Your code algorithm should be written either in Python or C/C++, whatever choice is preferable to you.
- Any filtering/cleaning of the dataset is appreciated. We don't require you to train ML models, however, you can do that, as well. No restrictions; we only need a working result/solution.
- (Optional) You can use any subset of the dataset (>=4000 images) if you want.
- At the completion of the task, provide all the scripts, models (in case you used ML models, otherwise no model is required), and the dataset that you used to solve the task
- Leave comments on your code/solution, preferably in English.

Dataset:
https://drive.google.com/file/d/0B7EVK8r0v71pS2YxRE1QTFZzekU/view?usp=sharing&resourcekey=0-2n-dbZygJiZdm0UbEaFRTA
The dataset contains ~41000 pictures. In each picture, there is no more than one person.

Information about the dataset:
https://drive.google.com/file/d/1qyqumyQAPCi4b_1W76vB43pBMDSbL2nz/view?usp=sharing