<u>**Counting Vehicles in the images**</u>

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Algorithm

For Demo3_a & Demo3_b

1) A threshold is defined for segmenting the windshields of the vehicles in the given image so that it neither very close to the black region nor very close to the white region.
2) The thresholding is performed on the RGB image.
3) Morphological processing is performed for removing artifacts.
4) The resulting blobs are counted and only those regions are considered which have an area within acceptable range.

For Demo3_a

The procedure is same as discussed above. Only difference being that the procedure Is applied twice with different thresholds. First threshold is required for counting autos and dark colored cars and the second threshold is required for counting the light colored vehicles.

Demo3_a

Demo3_b

Demo3_c