

1. The new src folder includes all files from the last, but two are a little bit different:
 - Segmentation.h: declaration of the class for the Hough Transformation
 - Segmentation.cpp: implementation of the class for the Hough Transformation
2. The data folder includes all images from the last exercises and one new image:
 - lines.tiff: Float value image with the lines for the Hough Transformation. The lines are white (1f) and the rest of the image is black (0f)
3. Implement the function “void Segmentation::houghTransform(const cv::Mat &input, float phiStep, cv::Mat &output)”
 - “Input”: is the float value input image
 - “phiStep”: number of angle steps for the Hough Transformation
 - “output”: is the output image for the result
 - a. What is the largest angle we need to find the straight lines?
 - b. Think about the number of rows and columns you need for the output image and create the output image accordingly
 - c. Implement the algorithm for the Hough Transformation