```
Scope: 1. QR-code must be at least 35% of the image 2. QR-code can be rotated at any Angle 3. Detect any number of QR-codes (test with 3) 4. Decode from binary to 8-bit ASCii 5. Confirm if QR-code before decoding
              6. Compensate Shear factor of 50
                                        Binarize
                                        regionprops
                                      to find possible
                                       quide bars
                                    look for long
guide bar with
                                    ratio of 7:1
                                  for each guide bar
                                 find corresponding 5:1
quide bar
                                   pair guide bars
                                 Using orthogonality
                                     rotate image
                                   with valve from
                                    regionprops
                                      if horizontal bar
                                                                               _rotate image another
                                                                                  180° to be _ instead of [
                                    is above vertica bar
                                   calculate location of
                                   rotated 2 vide bars
                                   Snip out QR-Code
                                    Using location of guide bars
                                    clean QR code with
                                   Median filter & Sharpening filter
                                    and then binarize the image
                                    remove surrounding
                                    White space
                                   Divide image into
                                   11x11 blocks
                                   Compute average value
                                    within each block
                                                                          \rightarrow the value is a "1"
                                     if average intensity.
                                     is less than 100
                                             No
                                     the value is a "6"
                      No is the value of each <
                                              Yes
    return "One non-QR
    code found "
                                    Decode to 8 bit ASCII
```

end