Exercise: Image rotation

Rotate a grayscale image at an arbitrary angle.

Example signature:

```cpp
void rotate(unsigned char* srcImg, int srcWidth, int srcHeight,
            double theta, unsigned char*& dstImg,
            int& dstWidth, int& dstHeight)
{
}
```

Additional considerations:

- An input grayscale image with no byte padding (raw array of bytes)
- An input image has row-major byte layout
- Rotation center: image center
- `dstImg`: memory allocation is performed internally
- `theta` angle is in radians
- Interpolation: freely implementable
- Please restrain from using 3<rd> party libraries that allow to accomplish this task out of the box
- Please document any other restrictions/assumptions that are specific to your implementation

Python

You are also free to implement image rotation function above in Python. For that please modify the signature up to your preference e.g.:

```python
import numpy as np

def rotate(image: np.ndarray, theta: float) -> np.ndarray:
    # Impl rotation
```

Restrain from using packages that allow to perform the task automatically.