

# Assignment: Image File Rotation Algorithm Implementation and Analysis

Implement a rotation algorithm for the attached landscape image file in Python or Rust, and prepare a report with the following structure:

1. Describe which method you adopted.
2. Explain the reason for choosing the method above (why you judged that method to be good).
3. Provide the implemented code.
4. Fill in the performance test results of the implemented code for the landscape image file (attached file):
5. Possibilities for further optimization (approaches to further optimize the results implemented this time).
6. References (papers and resources referred to).
7. Overall considerations (conclusion).

| File Size | Number of Pages | Rotation Angle | Processing Time |
|-----------|-----------------|----------------|-----------------|
| ■■ MB     | 1               | 90° CCW        | ■■ seconds      |
| ■■ MB     | 10              | 90° CCW        | ■■ seconds      |
| ■■ MB     | 50              | 90° CCW        | ■■ seconds      |