6. **Geometric transform (test image ray_trace_bottle.tif** can be found at ftp://ftp.cs.sjtu.edu.cn:990/lu-ht/DIP/images)

Develop a geometric transform program that wil<u>l rotate</u>, translate, and <u>scale</u> an image by specified amounts, using the <u>nearest neighbor</u> and <u>bilinear interpolation methods</u>, respectively.