**algorithm decribeation**

**Question 1**

1. **Pick 3 stars** from image 1.
2. **Try every 3-star combination** in image 2.
3. **Estimate rotation/shift**  between the triplets.
4. **Warp all stars** from image 1 using that transformation.
5. **For each warped star,** check if a star exists nearby in image 2.
6. **Count how many matched.**
7. **Pick the transformation** that gives the most matches with the smallest errors.