作业1

第一题:

Now suppose we wish to create a video transition such that the second video appears under the first video through a moving radius (like a clock hand), as in Fig. 2.23. Write a formula to use the correct pixels from the two videos to achieve this special effect for the red channel.

(本题目只做第一个视频最后一张图片(诺贝尔.jpg)与第二个视频的第一张图片(lena.jpg)的切换。**必须使用本作业提供的图片,其他图片无效**)

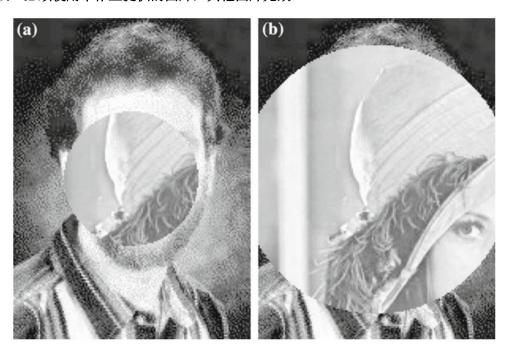


Fig. 2.22 Iris wipe: a iris is opening; b at a later moment

第二题:

For the color LUT problem, try out the median-cut algorithm on a sample image. Explain briefly why it is that this algorithm, carried out on an image of red apples, puts more color gradation in the resulting 24-bit color image where it is needed, among the reds.

(必须使用本作业提供的图片(redapple.jpg),其他图片无效)

每道题分值:算法描述部分(30%)+程序实现部分(30%)+实现效果部分(40%)每道题要求:中文 word 作答,附上源代码(编程软件不限),贴出实验效果做出实验分析。时限:利用两个工作周完成,10月18日晚上23:59分前发到 smartllv_dm@163.com(超过这个时间收到的本次作业将不予考虑)。

邮件标题和作业命名格式:姓名+学号+作业1