1. A binary array A that represents a portion of a black and white image is given below. Perform the operations listed below on this piece of image.
   1. Erosion
   2. Dilation
   3. Open
   4. Close

(Each operation (i-iv) needs to use each structuring element from a-e.)

**A =**

**[ 0 0 0 0 0 0 0 0**

**0 1 1 1 1 1 1 0**

**0 0 0 1 1 1 1 0**

**0 0 0 1 1 1 1 0**

**0 0 1 1 1 1 1 0**

**0 0 0 1 1 1 1 0**

**0 0 1 1 0 0 0 0**

**0 0 0 0 0 0 0 0]**

1. **strelb = 1 1 1**
2. **strelc = 1**

**1**

**1**

**1**

****

1. **strele = 1 1 1 1 1 1**
2. **strelf = 1 1 1**

**1 1 1**

**1 1 1**

**c)**