**381 : Project 5 Thinning Skeleton (java)**

**Qiman Wang**

**Due:3/7/17**

step 0: read the image header

dynamically allocate firstAry and secondAry

step 1: zeroFrame(firstAry), zeroFrame(secondAry)

step 2: loadImage

step 3: cycleCount <-- 0

step 4: if cycleCount is 0, or 3, or 5

prettyPrint firstAry to argv[2]

step 5: changeFlag <- false

cycleCount++

step 6: NorthThinning // look at pixels in firstAry and write the result to the econdAry

copyAry()

step 7: SouthThinning // look at pixels in firstAry and write the result to the econdAry

copyAry()

step 8: WestThinning // look at firstAry and write the result to secondAry

copyAry()

step 9: EastThinning // look at firstAry and write the result to secondAry

copyAry()

step 10: repeat step 4 to step 9 while changeFlag is true.

step 11: prettyPrint firstAry to argv[2]

step 12: write image header to argv[1] and copy firstAry from [1][1]

to argv[1]

step 13: close all files