**Project 2 Part 2 (square with min area)**

Name: \_Riya Dev\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_5\_\_\_\_\_\_

Date: \_10/20/2021\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Is your lab name l022?(lowercase L followed by digits 022) \_yes\_\_\_\_\_\_\_\_\_\_

Did you comment out the call to part1 method? \_yes\_\_\_\_\_\_\_\_\_\_

Did you create a class for a Point? \_yes\_\_\_\_\_\_\_\_\_\_

Did you create a class for a Line? \_no\_\_\_\_\_\_\_\_\_\_

List all classes you created in this project: \_Point\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Did you use the precision for the points like in the sample? \_yes\_\_\_\_\_\_\_\_\_\_

Did you test your file on a school computer using jupyterhub/ssh? \_yes\_\_\_\_\_\_\_\_\_\_

Did your file compile and run on school computer (jupyterhub)? \_yes\_\_\_\_\_\_\_\_\_\_

Paste here **2 sets of clear picture/content** of the points.txt, output.txt and output.ppm you created when running 2 times your lab :

* one of the runs should be on the sample provided by Mr. Jurj;

points.txt:

(0.18161564989165929,0.49650563066499831) , (0.20331431012909329,0.66115298928800315) , (0.45457319864497819,0.36802270577105012) , (0.86330759605700857,0.82033753471480453)

output.txt:

(0.18161564989165929,0.49650563066499831) , (0.20331431012909329,0.66115298928800315) , (0.45457319864497819,0.36802270577105012) , (0.86330759605700857,0.82033753471480453)

(0.21626596678621324,0.65838060894706707) , (0.27776345099379879,0.94567679589967168) , (0.56505963794640346,0.88417931169208630) , (0.50356215373881796,0.59688312473948191) Area=0.08632103960136817

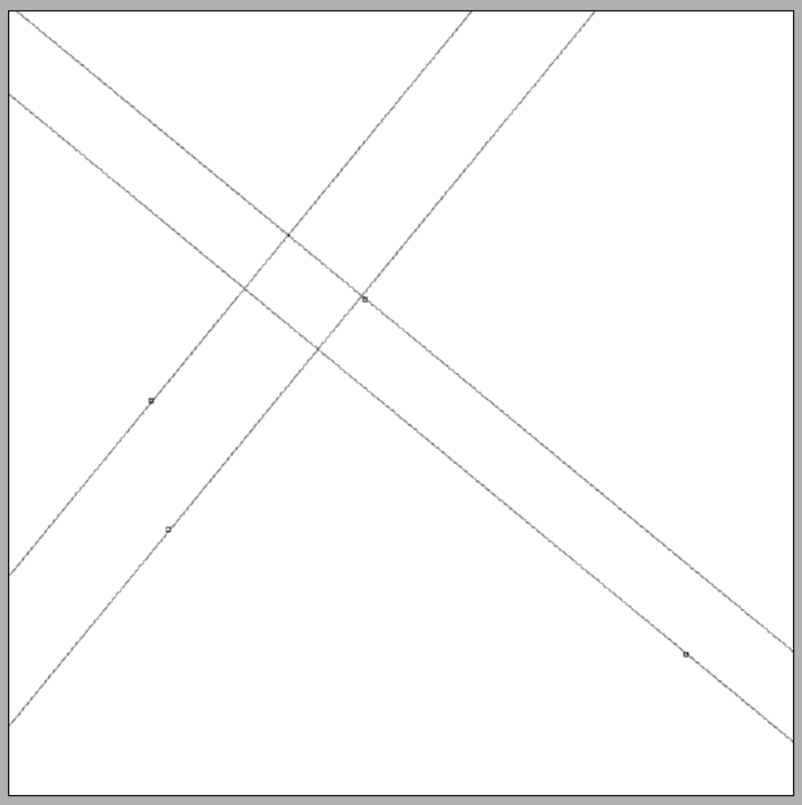
(0.11723405021564344,0.61397476973488152) , (0.20259839176784314,0.45822101773328322) , (0.35835214376944141,0.54358535928548291) , (0.27298780221724167,0.69933911128708126) Area=0.03154630207121600

(0.35552480074555171,0.28613960399470922) , (0.29933794231028027,0.35410501065720473) , (0.39308246411935982,0.43160340924878560) , (0.44926932255463126,0.36363800258629014) Area=0.00777625956362362

(0.44331712920848876,0.34816484883820864) , (0.55861874847758741,0.28280819746228736) , (0.63452827323686922,0.41672710148247571) , (0.51922665396777068,0.48208375285839700) Area=0.01756595528514989

(0.11203899669980624,0.59948257480160527) , (0.32676896554466228,0.28167142707049708) , (0.94502215454548721,0.69939588060257618) , (0.73029218570063126,1.01720702833368404) Area=0.14711288514227713

(0.19100469838217890,0.49580664007860870) , (0.46258119371751583,0.47558846632908103) , (0.49031416443971987,0.84810593933523881) , (0.21873766910438300,0.86832411308476698) Area=0.07416256736839034



* the other run on a random set of points.txt your part1 generated!! :

points.txt:

(0.84884228922838456,0.30141487266002914) , (0.1862372100289153,0.38537408103485316) , (0.65251675837324785,0.31810443211258593) , (0.4656713569842611,0.53473965755418862)

output.txt:

(0.84884228922838456,0.30141487266002914) , (0.18623721002891530,0.38537408103485316) , (0.65251675837324785,0.31810443211258593) , (0.46567135698426110,0.53473965755418862)

(0.84287270454210172,0.26801458324014332) , (0.87739212337469186,0.46115340950791633) , (0.68425329710691862,0.49567282834050652) , (0.64973387827432860,0.30253400207273351) Area=0.03849419648863278

(0.42518832604848217,0.66432262219415572) , (0.51256098075820178,0.58947801728705651) , (0.43771637585110224,0.50210536257733684) , (0.35034372114138274,0.57694996748443628) Area=0.01323569567472367

(0.69800113428631649,0.39300958417743020) , (0.46538151102385605,0.53426232978385679) , (0.32412876541742930,0.30164270652139646) , (0.55674838867988974,0.16038996091496974) Area=0.07406422726812291

(0.65709531680478273,0.27897718877483779) , (0.49778143869136515,0.26033473309248228) , (0.47913898300900970,0.41964861120589958) , (0.63845286112242727,0.43829106688825503) Area=0.02572845291340546

(0.36032114276019050,0.04876594875264462) , (0.70075609686631413,0.22482900239360257) , (0.52469304322535604,0.56526395649972627) , (0.18425808911923250,0.38920090285876818) Area=0.14689415683461732

(0.70513299688106079,0.61967772552216882) , (0.80933286528023929,0.38891361247906686) , (0.57856875223713722,0.28471374407988820) , (0.47436888383795878,0.51547785712299021) Area=0.06410968844297564

