Simple Backtracking:

10 Points

This answer took 15 assignments.

The solution graph is:

Node/Point: Red(0.06411923067927738, 0.25994910361650037)

Edge: (0.0641, 0.2599), (0.4424, 0.4137) [0.4083]

Edge: (0.0641, 0.2599), (0.4709, 0.0644) [0.4514]

Edge: (0.0641, 0.2599), (0.5022, 0.6380) [0.5787]

Edge: (0.0641, 0.2599), (0.8819, 0.4754) [0.8457]

Edge: (0.4709, 0.0644), (0.0641, 0.2599) [0.4514]

Edge: (0.4424, 0.4137), (0.0641, 0.2599) [0.4083]

Node/Point: Green(0.5022470067127215, 0.6380298550740836)

Edge: (0.0641, 0.2599), (0.5022, 0.6380) [0.5787]

Edge: (0.5022, 0.6380), (0.4424, 0.4137) [0.2322]

Edge: (0.5022, 0.6380), (0.4139, 0.8774) [0.2552]

Edge: (0.4139, 0.8774), (0.5022, 0.6380) [0.2552]

Node/Point: Red(0.908509767588684, 0.3080178783683214)

Edge: (0.9085, 0.3080), (0.8819, 0.4754) [0.1694]

Edge: (0.9085, 0.3080), (0.4160, 0.0270) [0.5671]

Edge: (0.8819, 0.4754), (0.9085, 0.3080) [0.1694]

Edge: (0.4160, 0.0270), (0.9085, 0.3080) [0.5671]

Node/Point: Red(0.7394933570684847, 0.6021724873869034)

Edge: (0.7395, 0.6022), (0.7322, 0.7485) [0.1465]

Edge: (0.7395, 0.6022), (0.4424, 0.4137) [0.3519]

Node/Point: Red(0.41393641375629553, 0.8774200828336408)

Edge: (0.5022, 0.6380), (0.4139, 0.8774) [0.2552]

Edge: (0.4139, 0.8774), (0.5022, 0.6380) [0.2552]

Node/Point: Green(0.4709166473105997, 0.06438133338295315)

Edge: (0.0641, 0.2599), (0.4709, 0.0644) [0.4514]

Edge: (0.4709, 0.0644), (0.0641, 0.2599) [0.4514]

Node/Point: Blue(0.8818984565307524, 0.4753520137222611)

Edge: (0.0641, 0.2599), (0.8819, 0.4754) [0.8457]

Edge: (0.9085, 0.3080), (0.8819, 0.4754) [0.1694]

Edge: (0.8819, 0.4754), (0.9085, 0.3080) [0.1694]

Edge: (0.8819, 0.4754), (0.7322, 0.7485) [0.3115]

Node/Point: Colorless(0.4423612280495337, 0.4137033798180181)

Edge: (0.0641, 0.2599), (0.4424, 0.4137) [0.4083]

Edge: (0.5022, 0.6380), (0.4424, 0.4137) [0.2322]

Edge: (0.7395, 0.6022), (0.4424, 0.4137) [0.3519]

Edge: (0.4424, 0.4137), (0.0641, 0.2599) [0.4083]

Edge: (0.4424, 0.4137), (0.7322, 0.7485) [0.4428]

Node/Point: Green(0.41596993455968023, 0.02702939977824348)

Edge: (0.9085, 0.3080), (0.4160, 0.0270) [0.5671]

Edge: (0.4160, 0.0270), (0.9085, 0.3080) [0.5671]

Node/Point: Green(0.7321674891409495, 0.7484858741472157)

Edge: (0.7395, 0.6022), (0.7322, 0.7485) [0.1465]

Edge: (0.8819, 0.4754), (0.7322, 0.7485) [0.3115]

Edge: (0.4424, 0.4137), (0.7322, 0.7485) [0.4428]

20 Points

This answer took 46 assignments.

The solution graph is:

Node/Point: Red(0.18435880065402488, 0.5331519195901666)

Edge: (0.1844, 0.5332), (0.2655, 0.4054) [0.1514]

Edge: (0.1844, 0.5332), (0.1114, 0.7239) [0.2042]

Edge: (0.1844, 0.5332), (0.5408, 0.1844) [0.4987]

Edge: (0.4632, 0.4497), (0.1844, 0.5332) [0.2911]

Edge: (0.5408, 0.1844), (0.1844, 0.5332) [0.4987]

Edge: (0.1114, 0.7239), (0.1844, 0.5332) [0.2042]

Edge: (0.2655, 0.4054), (0.1844, 0.5332) [0.1514]

Node/Point: Red(0.3313373548793659, 0.9550277852472767)

Edge: (0.3313, 0.9550), (0.3199, 0.8658) [0.0899]

Edge: (0.3313, 0.9550), (0.4832, 0.8216) [0.2021]

Edge: (0.3313, 0.9550), (0.3706, 0.7047) [0.2534]

Edge: (0.3706, 0.7047), (0.3313, 0.9550) [0.2534]

Node/Point: Green(0.4632248519928466, 0.4497233801796474)

Edge: (0.4632, 0.4497), (0.5294, 0.5319) [0.1055]

Edge: (0.4632, 0.4497), (0.5161, 0.2403) [0.2160]

Edge: (0.4632, 0.4497), (0.1844, 0.5332) [0.2911]

Edge: (0.4632, 0.4497), (0.6855, 0.0185) [0.4851]

Edge: (0.5161, 0.2403), (0.4632, 0.4497) [0.2160]

Edge: (0.6855, 0.0185), (0.4632, 0.4497) [0.4851]

Node/Point: Red(0.8020203539249185, 0.5103721333775215)

Edge: (0.8020, 0.5104), (0.7627, 0.5273) [0.0428]

Edge: (0.8020, 0.5104), (0.9174, 0.2944) [0.2449]

Edge: (0.8020, 0.5104), (0.4832, 0.8216) [0.4456]

Edge: (0.4832, 0.8216), (0.8020, 0.5104) [0.4456]

Edge: (0.7627, 0.5273), (0.8020, 0.5104) [0.0428]

Node/Point: Red(0.516084882716883, 0.24033167630501995)

Edge: (0.4632, 0.4497), (0.5161, 0.2403) [0.2160]

Edge: (0.5161, 0.2403), (0.4632, 0.4497) [0.2160]

Node/Point: Green(0.540839903381201, 0.18444111138389419)

Edge: (0.1844, 0.5332), (0.5408, 0.1844) [0.4987]

Edge: (0.5408, 0.1844), (0.2655, 0.4054) [0.3530]

Edge: (0.5408, 0.1844), (0.1844, 0.5332) [0.4987]

Node/Point: Red(0.22107876465720933, 0.9777496585017464)

Edge: (0.2211, 0.9777), (0.3706, 0.7047) [0.3113]

Edge: (0.3706, 0.7047), (0.2211, 0.9777) [0.3113]

Node/Point: Green(0.48315003078650154, 0.8215977337528299)

Edge: (0.3313, 0.9550), (0.4832, 0.8216) [0.2021]

Edge: (0.8020, 0.5104), (0.4832, 0.8216) [0.4456]

Edge: (0.4832, 0.8216), (0.5294, 0.5319) [0.2934]

Edge: (0.4832, 0.8216), (0.8020, 0.5104) [0.4456]

Edge: (0.5294, 0.5319), (0.4832, 0.8216) [0.2934]

Node/Point: Green(0.3705654131090007, 0.7047269277030743)

Edge: (0.3313, 0.9550), (0.3706, 0.7047) [0.2534]

Edge: (0.2211, 0.9777), (0.3706, 0.7047) [0.3113]

Edge: (0.3706, 0.7047), (0.3313, 0.9550) [0.2534]

Edge: (0.3706, 0.7047), (0.2211, 0.9777) [0.3113]

Node/Point: Red(0.05013276889602891, 0.2928514539119853)

Edge: (0.0501, 0.2929), (0.2246, 0.2551) [0.1785]

Edge: (0.2246, 0.2551), (0.0501, 0.2929) [0.1785]

Node/Point: Red(0.736463039904834, 0.5030990543092303)

Edge: (0.7365, 0.5031), (0.7627, 0.5273) [0.0357]

Edge: (0.7365, 0.5031), (0.9174, 0.2944) [0.2762]

Edge: (0.7627, 0.5273), (0.7365, 0.5031) [0.0357]

Node/Point: Green(0.7627171626176658, 0.5273074601940184)

Edge: (0.8020, 0.5104), (0.7627, 0.5273) [0.0428]

Edge: (0.7365, 0.5031), (0.7627, 0.5273) [0.0357]

Edge: (0.7627, 0.5273), (0.7365, 0.5031) [0.0357]

Edge: (0.7627, 0.5273), (0.8020, 0.5104) [0.0428]

Node/Point: Green(0.31994309481722927, 0.8658497220854164)

Edge: (0.3313, 0.9550), (0.3199, 0.8658) [0.0899]

Node/Point: Green(0.22462063089413398, 0.2550920597727946)

Edge: (0.0501, 0.2929), (0.2246, 0.2551) [0.1785]

Edge: (0.2246, 0.2551), (0.0501, 0.2929) [0.1785]

Edge: (0.2246, 0.2551), (0.3931, 0.1872) [0.1816]

Edge: (0.3931, 0.1872), (0.2246, 0.2551) [0.1816]

Node/Point: Red(0.6855330853225913, 0.01851844132664493)

Edge: (0.4632, 0.4497), (0.6855, 0.0185) [0.4851]

Edge: (0.6855, 0.0185), (0.9174, 0.2944) [0.3603]

Edge: (0.6855, 0.0185), (0.4632, 0.4497) [0.4851]

Node/Point: Green(0.11138429565349506, 0.7238702389916123)

Edge: (0.1844, 0.5332), (0.1114, 0.7239) [0.2042]

Edge: (0.1114, 0.7239), (0.1844, 0.5332) [0.2042]

Node/Point: Green(0.9173784048606535, 0.2943544882435247)

Edge: (0.8020, 0.5104), (0.9174, 0.2944) [0.2449]

Edge: (0.7365, 0.5031), (0.9174, 0.2944) [0.2762]

Edge: (0.6855, 0.0185), (0.9174, 0.2944) [0.3603]

Node/Point: Red(0.3930936943115805, 0.18720297388291673)

Edge: (0.2246, 0.2551), (0.3931, 0.1872) [0.1816]

Edge: (0.3931, 0.1872), (0.2246, 0.2551) [0.1816]

Node/Point: Red(0.5293585532155057, 0.5318754909103987)

Edge: (0.4632, 0.4497), (0.5294, 0.5319) [0.1055]

Edge: (0.4832, 0.8216), (0.5294, 0.5319) [0.2934]

Edge: (0.5294, 0.5319), (0.4832, 0.8216) [0.2934]

Node/Point: Blue(0.2655471029656583, 0.40537590979895477)

Edge: (0.1844, 0.5332), (0.2655, 0.4054) [0.1514]

Edge: (0.5408, 0.1844), (0.2655, 0.4054) [0.3530]

Edge: (0.2655, 0.4054), (0.1844, 0.5332) [0.1514]

30 Points

This answer took 118 assignments.

The solution graph is:

Node/Point: Red(0.6109490422530279, 0.7339969540035942)

Edge: (0.6109, 0.7340), (0.4940, 0.6408) [0.1495]

Edge: (0.6109, 0.7340), (0.5972, 0.9047) [0.1712]

Edge: (0.6109, 0.7340), (0.8248, 0.7423) [0.2140]

Edge: (0.5972, 0.9047), (0.6109, 0.7340) [0.1712]

Edge: (0.8248, 0.7423), (0.6109, 0.7340) [0.2140]

Node/Point: Red(0.16795341330467461, 0.7479631784857002)

Edge: (0.1680, 0.7480), (0.2536, 0.6895) [0.1037]

Edge: (0.1680, 0.7480), (0.0592, 0.7919) [0.1173]

Edge: (0.1680, 0.7480), (0.3750, 0.7889) [0.2110]

Edge: (0.1680, 0.7480), (0.3714, 0.6004) [0.2513]

Edge: (0.1680, 0.7480), (0.7404, 0.4303) [0.6546]

Edge: (0.7404, 0.4303), (0.1680, 0.7480) [0.6546]

Edge: (0.3714, 0.6004), (0.1680, 0.7480) [0.2513]

Edge: (0.0592, 0.7919), (0.1680, 0.7480) [0.1173]

Edge: (0.2536, 0.6895), (0.1680, 0.7480) [0.1037]

Edge: (0.3750, 0.7889), (0.1680, 0.7480) [0.2110]

Node/Point: Green(0.5971647151089925, 0.9046568012279059)

Edge: (0.6109, 0.7340), (0.5972, 0.9047) [0.1712]

Edge: (0.5972, 0.9047), (0.6109, 0.7340) [0.1712]

Edge: (0.5972, 0.9047), (0.4330, 0.9794) [0.1804]

Edge: (0.4330, 0.9794), (0.5972, 0.9047) [0.1804]

Node/Point: Green(0.8248124370577299, 0.7422730270448501)

Edge: (0.6109, 0.7340), (0.8248, 0.7423) [0.2140]

Edge: (0.8248, 0.7423), (0.6109, 0.7340) [0.2140]

Edge: (0.8248, 0.7423), (0.9425, 0.4955) [0.2734]

Edge: (0.9425, 0.4955), (0.8248, 0.7423) [0.2734]

Node/Point: Red(0.3136162366714448, 0.06186682009188471)

Edge: (0.3136, 0.0619), (0.2477, 0.0233) [0.0764]

Edge: (0.3136, 0.0619), (0.2468, 0.1054) [0.0798]

Edge: (0.3136, 0.0619), (0.1317, 0.1610) [0.2072]

Edge: (0.3136, 0.0619), (0.9130, 0.0593) [0.5994]

Node/Point: Red(0.465450407433738, 0.07295467216876328)

Edge: (0.4655, 0.0730), (0.4610, 0.0987) [0.0261]

Edge: (0.4655, 0.0730), (0.2468, 0.1054) [0.2211]

Edge: (0.4655, 0.0730), (0.8696, 0.2990) [0.4631]

Edge: (0.4610, 0.0987), (0.4655, 0.0730) [0.0261]

Edge: (0.8696, 0.2990), (0.4655, 0.0730) [0.4631]

Node/Point: Red(0.3666565152358643, 0.915380599337801)

Edge: (0.3667, 0.9154), (0.4545, 0.9147) [0.0879]

Edge: (0.3667, 0.9154), (0.4330, 0.9794) [0.0922]

Edge: (0.3667, 0.9154), (0.3750, 0.7889) [0.1267]

Edge: (0.3750, 0.7889), (0.3667, 0.9154) [0.1267]

Node/Point: Green(0.24675394659918704, 0.10542921416706119)

Edge: (0.3136, 0.0619), (0.2468, 0.1054) [0.0798]

Edge: (0.4655, 0.0730), (0.2468, 0.1054) [0.2211]

Edge: (0.2468, 0.1054), (0.2561, 0.2084) [0.1033]

Edge: (0.2468, 0.1054), (0.0452, 0.6240) [0.5564]

Edge: (0.2561, 0.2084), (0.2468, 0.1054) [0.1033]

Edge: (0.0452, 0.6240), (0.2468, 0.1054) [0.5564]

Node/Point: Red(0.5237891753400232, 0.5926757211043812)

Edge: (0.5238, 0.5927), (0.4940, 0.6408) [0.0566]

Edge: (0.5238, 0.5927), (0.3669, 0.7159) [0.1995]

Edge: (0.5238, 0.5927), (0.3507, 0.7726) [0.2497]

Edge: (0.3507, 0.7726), (0.5238, 0.5927) [0.2497]

Edge: (0.3669, 0.7159), (0.5238, 0.5927) [0.1995]

Edge: (0.4940, 0.6408), (0.5238, 0.5927) [0.0566]

Edge: (0.3750, 0.7889), (0.5238, 0.5927) [0.2463]

Node/Point: Blue(0.43296591812327245, 0.9794391495443061)

Edge: (0.5972, 0.9047), (0.4330, 0.9794) [0.1804]

Edge: (0.3667, 0.9154), (0.4330, 0.9794) [0.0922]

Edge: (0.4330, 0.9794), (0.5972, 0.9047) [0.1804]

Node/Point: Green(0.4609563388621246, 0.09870516238696347)

Edge: (0.4655, 0.0730), (0.4610, 0.0987) [0.0261]

Edge: (0.4610, 0.0987), (0.4655, 0.0730) [0.0261]

Edge: (0.4610, 0.0987), (0.3714, 0.6004) [0.5097]

Edge: (0.4610, 0.0987), (0.0452, 0.6240) [0.6699]

Edge: (0.3714, 0.6004), (0.4610, 0.0987) [0.5097]

Node/Point: Red(0.07097703914148001, 0.19889495704340554)

Edge: (0.0710, 0.1989), (0.1317, 0.1610) [0.0716]

Edge: (0.0710, 0.1989), (0.2477, 0.0233) [0.2492]

Edge: (0.1317, 0.1610), (0.0710, 0.1989) [0.0716]

Edge: (0.2477, 0.0233), (0.0710, 0.1989) [0.2492]

Node/Point: Red(0.14101888386850436, 0.9028815024498602)

Node/Point: Green(0.7403677248372089, 0.4303292725175297)

Edge: (0.1680, 0.7480), (0.7404, 0.4303) [0.6546]

Edge: (0.7404, 0.4303), (0.1680, 0.7480) [0.6546]

Node/Point: Green(0.13168671384478714, 0.16101436118512547)

Edge: (0.3136, 0.0619), (0.1317, 0.1610) [0.2072]

Edge: (0.0710, 0.1989), (0.1317, 0.1610) [0.0716]

Edge: (0.1317, 0.1610), (0.0710, 0.1989) [0.0716]

Node/Point: Green(0.45452390250125907, 0.9146523674724126)

Edge: (0.3667, 0.9154), (0.4545, 0.9147) [0.0879]

Edge: (0.4545, 0.9147), (0.4940, 0.6408) [0.2767]

Edge: (0.4940, 0.6408), (0.4545, 0.9147) [0.2767]

Node/Point: Blue(0.3713527664004743, 0.6004302928955872)

Edge: (0.1680, 0.7480), (0.3714, 0.6004) [0.2513]

Edge: (0.4610, 0.0987), (0.3714, 0.6004) [0.5097]

Edge: (0.3714, 0.6004), (0.2536, 0.6895) [0.1477]

Edge: (0.3714, 0.6004), (0.1680, 0.7480) [0.2513]

Edge: (0.3714, 0.6004), (0.0592, 0.7919) [0.3662]

Edge: (0.3714, 0.6004), (0.4610, 0.0987) [0.5097]

Edge: (0.2536, 0.6895), (0.3714, 0.6004) [0.1477]

Node/Point: Red(0.9424723680052184, 0.4955353058985543)

Edge: (0.8248, 0.7423), (0.9425, 0.4955) [0.2734]

Edge: (0.9425, 0.4955), (0.8248, 0.7423) [0.2734]

Edge: (0.9425, 0.4955), (0.9130, 0.0593) [0.4373]

Edge: (0.9130, 0.0593), (0.9425, 0.4955) [0.4373]

Node/Point: Green(0.24772937615650859, 0.02326142021873845)

Edge: (0.3136, 0.0619), (0.2477, 0.0233) [0.0764]

Edge: (0.0710, 0.1989), (0.2477, 0.0233) [0.2492]

Edge: (0.2477, 0.0233), (0.0710, 0.1989) [0.2492]

Edge: (0.2477, 0.0233), (0.9572, 0.0279) [0.7095]

Edge: (0.9572, 0.0279), (0.2477, 0.0233) [0.7095]

Node/Point: Green(0.35065028469776804, 0.772630034048283)

Edge: (0.5238, 0.5927), (0.3507, 0.7726) [0.2497]

Edge: (0.3507, 0.7726), (0.5238, 0.5927) [0.2497]

Node/Point: Green(0.366880880040782, 0.7158973792329962)

Edge: (0.5238, 0.5927), (0.3669, 0.7159) [0.1995]

Edge: (0.3669, 0.7159), (0.5238, 0.5927) [0.1995]

Node/Point: Blue(0.8696443075661354, 0.2989684004779928)

Edge: (0.4655, 0.0730), (0.8696, 0.2990) [0.4631]

Edge: (0.8696, 0.2990), (0.4655, 0.0730) [0.4631]

Edge: (0.2536, 0.6895), (0.8696, 0.2990) [0.7294]

Node/Point: Green(0.05919189541853287, 0.7918524389259011)

Edge: (0.1680, 0.7480), (0.0592, 0.7919) [0.1173]

Edge: (0.3714, 0.6004), (0.0592, 0.7919) [0.3662]

Edge: (0.0592, 0.7919), (0.1680, 0.7480) [0.1173]

Node/Point: Green(0.9130051698125816, 0.05926511130250389)

Edge: (0.3136, 0.0619), (0.9130, 0.0593) [0.5994]

Edge: (0.9425, 0.4955), (0.9130, 0.0593) [0.4373]

Edge: (0.9130, 0.0593), (0.9572, 0.0279) [0.0542]

Edge: (0.9130, 0.0593), (0.9425, 0.4955) [0.4373]

Node/Point: Blue(0.49400566300693405, 0.6408083999454793)

Edge: (0.6109, 0.7340), (0.4940, 0.6408) [0.1495]

Edge: (0.5238, 0.5927), (0.4940, 0.6408) [0.0566]

Edge: (0.4545, 0.9147), (0.4940, 0.6408) [0.2767]

Edge: (0.4940, 0.6408), (0.5238, 0.5927) [0.0566]

Edge: (0.4940, 0.6408), (0.4545, 0.9147) [0.2767]

Node/Point: Green(0.2535636331964741, 0.6894819892255657)

Edge: (0.1680, 0.7480), (0.2536, 0.6895) [0.1037]

Edge: (0.3714, 0.6004), (0.2536, 0.6895) [0.1477]

Edge: (0.2536, 0.6895), (0.1680, 0.7480) [0.1037]

Edge: (0.2536, 0.6895), (0.3714, 0.6004) [0.1477]

Edge: (0.2536, 0.6895), (0.8696, 0.2990) [0.7294]

Node/Point: Red(0.25611286649364073, 0.208350388314414)

Edge: (0.2468, 0.1054), (0.2561, 0.2084) [0.1033]

Edge: (0.2561, 0.2084), (0.2468, 0.1054) [0.1033]

Edge: (0.2561, 0.2084), (0.0452, 0.6240) [0.4661]

Edge: (0.0452, 0.6240), (0.2561, 0.2084) [0.4661]

Node/Point: Red(0.9572442822488956, 0.02789432325040564)

Edge: (0.2477, 0.0233), (0.9572, 0.0279) [0.7095]

Edge: (0.9130, 0.0593), (0.9572, 0.0279) [0.0542]

Edge: (0.9572, 0.0279), (0.2477, 0.0233) [0.7095]

Node/Point: Green(0.3749656177793257, 0.788921797340415)

Edge: (0.1680, 0.7480), (0.3750, 0.7889) [0.2110]

Edge: (0.3667, 0.9154), (0.3750, 0.7889) [0.1267]

Edge: (0.3750, 0.7889), (0.3667, 0.9154) [0.1267]

Edge: (0.3750, 0.7889), (0.1680, 0.7480) [0.2110]

Edge: (0.3750, 0.7889), (0.5238, 0.5927) [0.2463]

Node/Point: Blue(0.0451935287847921, 0.6240324083685608)

Edge: (0.2468, 0.1054), (0.0452, 0.6240) [0.5564]

Edge: (0.4610, 0.0987), (0.0452, 0.6240) [0.6699]

Edge: (0.2561, 0.2084), (0.0452, 0.6240) [0.4661]

Edge: (0.0452, 0.6240), (0.2561, 0.2084) [0.4661]

Edge: (0.0452, 0.6240), (0.2468, 0.1054) [0.5564]

40 Points

This answer took 60089 assignments.

The solution graph is:

Node/Point: Red(0.09143743687530814, 0.37878140341624744)

Edge: (0.0914, 0.3788), (0.0971, 0.4063) [0.0281]

Edge: (0.0914, 0.3788), (0.0795, 0.4195) [0.0425]

Edge: (0.0914, 0.3788), (0.2280, 0.3632) [0.1375]

Edge: (0.0914, 0.3788), (0.0976, 0.2172) [0.1617]

Edge: (0.0971, 0.4063), (0.0914, 0.3788) [0.0281]

Edge: (0.0795, 0.4195), (0.0914, 0.3788) [0.0425]

Node/Point: Red(0.5621091751567355, 0.7742544883226296)

Edge: (0.5621, 0.7743), (0.5770, 0.7515) [0.0272]

Edge: (0.5621, 0.7743), (0.5092, 0.6402) [0.1441]

Edge: (0.5621, 0.7743), (0.4983, 0.9568) [0.1934]

Edge: (0.5621, 0.7743), (0.3527, 0.8978) [0.2432]

Edge: (0.5621, 0.7743), (0.8399, 0.5168) [0.3788]

Edge: (0.5621, 0.7743), (0.6173, 0.2176) [0.5594]

Edge: (0.5770, 0.7515), (0.5621, 0.7743) [0.0272]

Edge: (0.8399, 0.5168), (0.5621, 0.7743) [0.3788]

Edge: (0.4983, 0.9568), (0.5621, 0.7743) [0.1934]

Edge: (0.6173, 0.2176), (0.5621, 0.7743) [0.5594]

Edge: (0.3527, 0.8978), (0.5621, 0.7743) [0.2432]

Node/Point: Green(0.09714515298283288, 0.4062540971816232)

Edge: (0.0914, 0.3788), (0.0971, 0.4063) [0.0281]

Edge: (0.0971, 0.4063), (0.0914, 0.3788) [0.0281]

Edge: (0.0971, 0.4063), (0.1420, 0.6504) [0.2482]

Edge: (0.0971, 0.4063), (0.0118, 0.7098) [0.3153]

Edge: (0.0971, 0.4063), (0.0277, 0.8525) [0.4516]

Edge: (0.0277, 0.8525), (0.0971, 0.4063) [0.4516]

Node/Point: Red(0.13197854842633794, 0.5013399333380404)

Edge: (0.1320, 0.5013), (0.1420, 0.6504) [0.1494]

Edge: (0.1320, 0.5013), (0.4361, 0.1446) [0.4687]

Node/Point: Red(0.5877937810439948, 0.8333243315296457)

Edge: (0.5878, 0.8333), (0.7087, 0.7711) [0.1360]

Edge: (0.5878, 0.8333), (0.8349, 0.8167) [0.2477]

Edge: (0.7087, 0.7711), (0.5878, 0.8333) [0.1360]

Edge: (0.8349, 0.8167), (0.5878, 0.8333) [0.2477]

Node/Point: Blue(0.14200278334722993, 0.6503743833808237)

Edge: (0.0971, 0.4063), (0.1420, 0.6504) [0.2482]

Edge: (0.1320, 0.5013), (0.1420, 0.6504) [0.1494]

Edge: (0.1420, 0.6504), (0.0277, 0.8525) [0.2322]

Edge: (0.0277, 0.8525), (0.1420, 0.6504) [0.2322]

Node/Point: Red(0.2347008692077832, 0.20562902233960267)

Edge: (0.2347, 0.2056), (0.0976, 0.2172) [0.1376]

Edge: (0.2347, 0.2056), (0.2280, 0.3658) [0.1603]

Edge: (0.2347, 0.2056), (0.5023, 0.0239) [0.3235]

Edge: (0.0976, 0.2172), (0.2347, 0.2056) [0.1376]

Edge: (0.5023, 0.0239), (0.2347, 0.2056) [0.3235]

Edge: (0.2280, 0.3658), (0.2347, 0.2056) [0.1603]

Node/Point: Red(0.4113053311818323, 0.9343315872087604)

Edge: (0.4113, 0.9343), (0.3667, 0.9373) [0.0447]

Edge: (0.4113, 0.9343), (0.3527, 0.8978) [0.0691]

Edge: (0.3527, 0.8978), (0.4113, 0.9343) [0.0691]

Node/Point: Green(0.09760226917502723, 0.217164797948609)

Edge: (0.0914, 0.3788), (0.0976, 0.2172) [0.1617]

Edge: (0.2347, 0.2056), (0.0976, 0.2172) [0.1376]

Edge: (0.0976, 0.2172), (0.2347, 0.2056) [0.1376]

Edge: (0.0795, 0.4195), (0.0976, 0.2172) [0.2032]

Node/Point: Red(0.5730927717792192, 0.3301388890736636)

Edge: (0.5731, 0.3301), (0.4609, 0.3571) [0.1154]

Edge: (0.5731, 0.3301), (0.4419, 0.2362) [0.1613]

Edge: (0.4609, 0.3571), (0.5731, 0.3301) [0.1154]

Node/Point: Green(0.577036261534834, 0.7515318381323863)

Edge: (0.5621, 0.7743), (0.5770, 0.7515) [0.0272]

Edge: (0.5770, 0.7515), (0.5621, 0.7743) [0.0272]

Edge: (0.5770, 0.7515), (0.8399, 0.5168) [0.3525]

Edge: (0.5770, 0.7515), (0.7360, 0.1633) [0.6094]

Edge: (0.7360, 0.1633), (0.5770, 0.7515) [0.6094]

Node/Point: Green(0.427256491499851, 0.6996469935770903)

Edge: (0.4273, 0.6996), (0.4179, 0.5326) [0.1673]

Edge: (0.4273, 0.6996), (0.2050, 0.8898) [0.2925]

Edge: (0.4273, 0.6996), (0.4609, 0.3571) [0.3442]

Edge: (0.4273, 0.6996), (0.3342, 0.3187) [0.3922]

Edge: (0.2050, 0.8898), (0.4273, 0.6996) [0.2925]

Edge: (0.4609, 0.3571), (0.4273, 0.6996) [0.3442]

Edge: (0.4179, 0.5326), (0.4273, 0.6996) [0.1673]

Node/Point: Red(0.7360484703602165, 0.1632949950001389)

Edge: (0.5770, 0.7515), (0.7360, 0.1633) [0.6094]

Edge: (0.7360, 0.1633), (0.7487, 0.2451) [0.0828]

Edge: (0.7360, 0.1633), (0.6675, 0.2166) [0.0868]

Edge: (0.7360, 0.1633), (0.5770, 0.7515) [0.6094]

Edge: (0.6675, 0.2166), (0.7360, 0.1633) [0.0868]

Node/Point: Blue(0.20497405913024613, 0.8898066903401316)

Edge: (0.4273, 0.6996), (0.2050, 0.8898) [0.2925]

Edge: (0.2050, 0.8898), (0.3667, 0.9373) [0.1686]

Edge: (0.2050, 0.8898), (0.0277, 0.8525) [0.1812]

Edge: (0.2050, 0.8898), (0.4273, 0.6996) [0.2925]

Edge: (0.3667, 0.9373), (0.2050, 0.8898) [0.1686]

Node/Point: Green(0.7086556678641598, 0.7710500029295945)

Edge: (0.5878, 0.8333), (0.7087, 0.7711) [0.1360]

Edge: (0.7087, 0.7711), (0.8349, 0.8167) [0.1343]

Edge: (0.7087, 0.7711), (0.5878, 0.8333) [0.1360]

Edge: (0.7087, 0.7711), (0.8399, 0.5168) [0.2862]

Edge: (0.8399, 0.5168), (0.7087, 0.7711) [0.2862]

Node/Point: Red(0.02768948391001569, 0.852488385633738)

Edge: (0.0971, 0.4063), (0.0277, 0.8525) [0.4516]

Edge: (0.1420, 0.6504), (0.0277, 0.8525) [0.2322]

Edge: (0.2050, 0.8898), (0.0277, 0.8525) [0.1812]

Edge: (0.0277, 0.8525), (0.0118, 0.7098) [0.1436]

Edge: (0.0277, 0.8525), (0.1420, 0.6504) [0.2322]

Edge: (0.0277, 0.8525), (0.0971, 0.4063) [0.4516]

Edge: (0.0277, 0.8525), (0.3342, 0.3187) [0.6155]

Edge: (0.0118, 0.7098), (0.0277, 0.8525) [0.1436]

Edge: (0.3342, 0.3187), (0.0277, 0.8525) [0.6155]

Node/Point: Red(0.4564509107132313, 0.14804074666162925)

Edge: (0.4565, 0.1480), (0.4419, 0.2362) [0.0894]

Edge: (0.4565, 0.1480), (0.6173, 0.2176) [0.1753]

Edge: (0.4419, 0.2362), (0.4565, 0.1480) [0.0894]

Edge: (0.6675, 0.2166), (0.4565, 0.1480) [0.2219]

Node/Point: Blue(0.8399216761718454, 0.5167630629120171)

Edge: (0.5621, 0.7743), (0.8399, 0.5168) [0.3788]

Edge: (0.5770, 0.7515), (0.8399, 0.5168) [0.3525]

Edge: (0.7087, 0.7711), (0.8399, 0.5168) [0.2862]

Edge: (0.8399, 0.5168), (0.7876, 0.3801) [0.1464]

Edge: (0.8399, 0.5168), (0.7375, 0.3078) [0.2327]

Edge: (0.8399, 0.5168), (0.7087, 0.7711) [0.2862]

Edge: (0.8399, 0.5168), (0.5621, 0.7743) [0.3788]

Edge: (0.8399, 0.5168), (0.8833, 0.9371) [0.4226]

Edge: (0.8833, 0.9371), (0.8399, 0.5168) [0.4226]

Edge: (0.7375, 0.3078), (0.8399, 0.5168) [0.2327]

Node/Point: Blue(0.8349290111303813, 0.8166817079570352)

Edge: (0.5878, 0.8333), (0.8349, 0.8167) [0.2477]

Edge: (0.7087, 0.7711), (0.8349, 0.8167) [0.1343]

Edge: (0.8349, 0.8167), (0.5878, 0.8333) [0.2477]

Node/Point: Green(0.7486712161393623, 0.24509617003543982)

Edge: (0.7360, 0.1633), (0.7487, 0.2451) [0.0828]

Edge: (0.7487, 0.2451), (0.7375, 0.3078) [0.0637]

Edge: (0.7487, 0.2451), (0.7876, 0.3801) [0.1405]

Edge: (0.7876, 0.3801), (0.7487, 0.2451) [0.1405]

Edge: (0.7375, 0.3078), (0.7487, 0.2451) [0.0637]

Node/Point: Red(0.7875554641283463, 0.38009661499453284)

Edge: (0.8399, 0.5168), (0.7876, 0.3801) [0.1464]

Edge: (0.7487, 0.2451), (0.7876, 0.3801) [0.1405]

Edge: (0.7876, 0.3801), (0.7487, 0.2451) [0.1405]

Node/Point: Blue(0.011765077690857773, 0.7097884757301899)

Edge: (0.0971, 0.4063), (0.0118, 0.7098) [0.3153]

Edge: (0.0277, 0.8525), (0.0118, 0.7098) [0.1436]

Edge: (0.0118, 0.7098), (0.0277, 0.8525) [0.1436]

Node/Point: Blue(0.4982982911635102, 0.9567931638075967)

Edge: (0.5621, 0.7743), (0.4983, 0.9568) [0.1934]

Edge: (0.4983, 0.9568), (0.3667, 0.9373) [0.1330]

Edge: (0.4983, 0.9568), (0.5621, 0.7743) [0.1934]

Edge: (0.3667, 0.9373), (0.4983, 0.9568) [0.1330]

Node/Point: Red(0.8833000229945784, 0.9371311498818384)

Edge: (0.8399, 0.5168), (0.8833, 0.9371) [0.4226]

Edge: (0.8833, 0.9371), (0.8399, 0.5168) [0.4226]

Node/Point: Green(0.5022868713794885, 0.023850727326557797)

Edge: (0.2347, 0.2056), (0.5023, 0.0239) [0.3235]

Edge: (0.5023, 0.0239), (0.2347, 0.2056) [0.3235]

Edge: (0.2280, 0.3658), (0.5023, 0.0239) [0.4383]

Node/Point: Red(0.14641538805165066, 0.0841247412922842)

Node/Point: Blue(0.07945729232095367, 0.4195061207382327)

Edge: (0.0914, 0.3788), (0.0795, 0.4195) [0.0425]

Edge: (0.0795, 0.4195), (0.0914, 0.3788) [0.0425]

Edge: (0.0795, 0.4195), (0.0976, 0.2172) [0.2032]

Node/Point: Green(0.4419459763281559, 0.23624481285228816)

Edge: (0.5731, 0.3301), (0.4419, 0.2362) [0.1613]

Edge: (0.4565, 0.1480), (0.4419, 0.2362) [0.0894]

Edge: (0.4419, 0.2362), (0.4565, 0.1480) [0.0894]

Edge: (0.4419, 0.2362), (0.4361, 0.1446) [0.0918]

Edge: (0.4419, 0.2362), (0.4179, 0.5326) [0.2974]

Edge: (0.4361, 0.1446), (0.4419, 0.2362) [0.0918]

Edge: (0.4609, 0.3571), (0.4419, 0.2362) [0.1224]

Node/Point: Red(0.7374894068902368, 0.3077803660900059)

Edge: (0.8399, 0.5168), (0.7375, 0.3078) [0.2327]

Edge: (0.7487, 0.2451), (0.7375, 0.3078) [0.0637]

Edge: (0.7375, 0.3078), (0.7487, 0.2451) [0.0637]

Edge: (0.7375, 0.3078), (0.8399, 0.5168) [0.2327]

Node/Point: Blue(0.43607679599852023, 0.14461974932014976)

Edge: (0.1320, 0.5013), (0.4361, 0.1446) [0.4687]

Edge: (0.4419, 0.2362), (0.4361, 0.1446) [0.0918]

Edge: (0.4361, 0.1446), (0.4419, 0.2362) [0.0918]

Edge: (0.4361, 0.1446), (0.4179, 0.5326) [0.3884]

Edge: (0.4179, 0.5326), (0.4361, 0.1446) [0.3884]

Node/Point: Blue(0.22803564891536932, 0.36579681553491017)

Edge: (0.2347, 0.2056), (0.2280, 0.3658) [0.1603]

Edge: (0.2280, 0.3658), (0.2280, 0.3632) [0.0026]

Edge: (0.2280, 0.3658), (0.2347, 0.2056) [0.1603]

Edge: (0.2280, 0.3658), (0.5023, 0.0239) [0.4383]

Edge: (0.2280, 0.3632), (0.2280, 0.3658) [0.0026]

Node/Point: Blue(0.4609409869689568, 0.3571188707652)

Edge: (0.5731, 0.3301), (0.4609, 0.3571) [0.1154]

Edge: (0.4273, 0.6996), (0.4609, 0.3571) [0.3442]

Edge: (0.4609, 0.3571), (0.5731, 0.3301) [0.1154]

Edge: (0.4609, 0.3571), (0.4419, 0.2362) [0.1224]

Edge: (0.4609, 0.3571), (0.5092, 0.6402) [0.2872]

Edge: (0.4609, 0.3571), (0.4273, 0.6996) [0.3442]

Edge: (0.5092, 0.6402), (0.4609, 0.3571) [0.2872]

Node/Point: Blue(0.3341872410157605, 0.3186995159607664)

Edge: (0.4273, 0.6996), (0.3342, 0.3187) [0.3922]

Edge: (0.0277, 0.8525), (0.3342, 0.3187) [0.6155]

Edge: (0.3342, 0.3187), (0.0277, 0.8525) [0.6155]

Node/Point: Green(0.5091731243077395, 0.6402320910816146)

Edge: (0.5621, 0.7743), (0.5092, 0.6402) [0.1441]

Edge: (0.4609, 0.3571), (0.5092, 0.6402) [0.2872]

Edge: (0.5092, 0.6402), (0.4609, 0.3571) [0.2872]

Node/Point: Green(0.6173186377058664, 0.21758757125500294)

Edge: (0.5621, 0.7743), (0.6173, 0.2176) [0.5594]

Edge: (0.4565, 0.1480), (0.6173, 0.2176) [0.1753]

Edge: (0.6173, 0.2176), (0.5621, 0.7743) [0.5594]

Node/Point: Green(0.36674986019975453, 0.9372551213385375)

Edge: (0.4113, 0.9343), (0.3667, 0.9373) [0.0447]

Edge: (0.2050, 0.8898), (0.3667, 0.9373) [0.1686]

Edge: (0.4983, 0.9568), (0.3667, 0.9373) [0.1330]

Edge: (0.3667, 0.9373), (0.4983, 0.9568) [0.1330]

Edge: (0.3667, 0.9373), (0.2050, 0.8898) [0.1686]

Node/Point: Red(0.41789634580399737, 0.5326399391968006)

Edge: (0.4273, 0.6996), (0.4179, 0.5326) [0.1673]

Edge: (0.4419, 0.2362), (0.4179, 0.5326) [0.2974]

Edge: (0.4361, 0.1446), (0.4179, 0.5326) [0.3884]

Edge: (0.4179, 0.5326), (0.4273, 0.6996) [0.1673]

Edge: (0.4179, 0.5326), (0.4361, 0.1446) [0.3884]

Node/Point: Green(0.22802102085652465, 0.36317664700781627)

Edge: (0.0914, 0.3788), (0.2280, 0.3632) [0.1375]

Edge: (0.2280, 0.3658), (0.2280, 0.3632) [0.0026]

Edge: (0.2280, 0.3632), (0.2280, 0.3658) [0.0026]

Node/Point: Green(0.6675337575209561, 0.21661239909119168)

Edge: (0.7360, 0.1633), (0.6675, 0.2166) [0.0868]

Edge: (0.6675, 0.2166), (0.7360, 0.1633) [0.0868]

Edge: (0.6675, 0.2166), (0.4565, 0.1480) [0.2219]

Node/Point: Green(0.35265341048496, 0.8977973176029744)

Edge: (0.5621, 0.7743), (0.3527, 0.8978) [0.2432]

Edge: (0.4113, 0.9343), (0.3527, 0.8978) [0.0691]

Edge: (0.3527, 0.8978), (0.4113, 0.9343) [0.0691]

Edge: (0.3527, 0.8978), (0.5621, 0.7743) [0.2432]

50 Points

This answer took 60182 assignments.

The solution graph is:

Node/Point: Red(0.4885186485392503, 0.38314648953289354)

Edge: (0.4885, 0.3831), (0.5058, 0.3260) [0.0597]

Edge: (0.4885, 0.3831), (0.3682, 0.3634) [0.1220]

Edge: (0.4885, 0.3831), (0.4607, 0.5565) [0.1755]

Edge: (0.4885, 0.3831), (0.6607, 0.2909) [0.1953]

Edge: (0.4885, 0.3831), (0.7242, 0.4686) [0.2507]

Edge: (0.4885, 0.3831), (0.1652, 0.6996) [0.4524]

Edge: (0.1652, 0.6996), (0.4885, 0.3831) [0.4524]

Edge: (0.5058, 0.3260), (0.4885, 0.3831) [0.0597]

Node/Point: Red(0.1962811021921913, 0.5059927653156153)

Edge: (0.1963, 0.5060), (0.1671, 0.5174) [0.0313]

Edge: (0.1963, 0.5060), (0.1745, 0.6458) [0.1415]

Edge: (0.1963, 0.5060), (0.1898, 0.0942) [0.4118]

Edge: (0.1963, 0.5060), (0.1269, 0.0674) [0.4440]

Edge: (0.1745, 0.6458), (0.1963, 0.5060) [0.1415]

Edge: (0.1269, 0.0674), (0.1963, 0.5060) [0.4440]

Node/Point: Red(0.13223551743481265, 0.1398377020064827)

Edge: (0.1322, 0.1398), (0.1038, 0.2440) [0.1080]

Edge: (0.1322, 0.1398), (0.0931, 0.5676) [0.4295]

Edge: (0.1038, 0.2440), (0.1322, 0.1398) [0.1080]

Node/Point: Red(0.9749753111211559, 0.38766579537136125)

Edge: (0.9750, 0.3877), (0.9522, 0.5876) [0.2012]

Edge: (0.9750, 0.3877), (0.9716, 0.6133) [0.2257]

Edge: (0.9750, 0.3877), (0.8803, 0.6703) [0.2980]

Edge: (0.9750, 0.3877), (0.9218, 0.0271) [0.3644]

Edge: (0.9750, 0.3877), (0.9747, 0.8435) [0.4559]

Edge: (0.9747, 0.8435), (0.9750, 0.3877) [0.4559]

Node/Point: Red(0.5393502139802775, 0.4177685261031482)

Edge: (0.5394, 0.4178), (0.5391, 0.4330) [0.0152]

Edge: (0.5394, 0.4178), (0.6135, 0.5668) [0.1665]

Edge: (0.5394, 0.4178), (0.5663, 0.5987) [0.1830]

Edge: (0.5394, 0.4178), (0.3832, 0.8543) [0.4636]

Edge: (0.5394, 0.4178), (0.2440, 0.9666) [0.6233]

Edge: (0.3832, 0.8543), (0.5394, 0.4178) [0.4636]

Edge: (0.6135, 0.5668), (0.5394, 0.4178) [0.1665]

Edge: (0.2440, 0.9666), (0.5394, 0.4178) [0.6233]

Node/Point: Red(0.8082180565845167, 0.9398158584071861)

Edge: (0.8082, 0.9398), (0.8050, 0.9051) [0.0348]

Edge: (0.8082, 0.9398), (0.8162, 0.7730) [0.1670]

Edge: (0.8082, 0.9398), (0.7550, 0.3080) [0.6340]

Edge: (0.8082, 0.9398), (0.7554, 0.3069) [0.6351]

Edge: (0.8162, 0.7730), (0.8082, 0.9398) [0.1670]

Edge: (0.7554, 0.3069), (0.8082, 0.9398) [0.6351]

Node/Point: Red(0.6923195904227946, 0.3472193623291814)

Edge: (0.6923, 0.3472), (0.6607, 0.2909) [0.0646]

Edge: (0.6923, 0.3472), (0.7550, 0.3080) [0.0739]

Edge: (0.6923, 0.3472), (0.7242, 0.4686) [0.1255]

Edge: (0.6923, 0.3472), (0.9218, 0.0271) [0.3938]

Edge: (0.9218, 0.0271), (0.6923, 0.3472) [0.3938]

Edge: (0.7242, 0.4686), (0.6923, 0.3472) [0.1255]

Edge: (0.7550, 0.3080), (0.6923, 0.3472) [0.0739]

Node/Point: Red(0.4258834045340383, 0.7992864324573034)

Edge: (0.4259, 0.7993), (0.4516, 0.7923) [0.0267]

Edge: (0.4259, 0.7993), (0.3832, 0.8543) [0.0696]

Edge: (0.4259, 0.7993), (0.5620, 0.6201) [0.2250]

Edge: (0.4259, 0.7993), (0.7160, 0.8432) [0.2935]

Edge: (0.4259, 0.7993), (0.7556, 0.5799) [0.3961]

Edge: (0.7160, 0.8432), (0.4259, 0.7993) [0.2935]

Edge: (0.3832, 0.8543), (0.4259, 0.7993) [0.0696]

Edge: (0.5620, 0.6201), (0.4259, 0.7993) [0.2250]

Edge: (0.4516, 0.7923), (0.4259, 0.7993) [0.0267]

Node/Point: Green(0.9747342564536037, 0.8435281302974214)

Edge: (0.9750, 0.3877), (0.9747, 0.8435) [0.4559]

Edge: (0.9747, 0.8435), (0.9522, 0.5876) [0.2569]

Edge: (0.9747, 0.8435), (0.9750, 0.3877) [0.4559]

Edge: (0.9522, 0.5876), (0.9747, 0.8435) [0.2569]

Edge: (0.9716, 0.6133), (0.9747, 0.8435) [0.2302]

Node/Point: Green(0.921801119600964, 0.02713400750339512)

Edge: (0.9750, 0.3877), (0.9218, 0.0271) [0.3644]

Edge: (0.6923, 0.3472), (0.9218, 0.0271) [0.3938]

Edge: (0.9218, 0.0271), (0.7554, 0.3069) [0.3255]

Edge: (0.9218, 0.0271), (0.6923, 0.3472) [0.3938]

Edge: (0.9218, 0.0271), (0.3729, 0.0953) [0.5532]

Edge: (0.3729, 0.0953), (0.9218, 0.0271) [0.5532]

Node/Point: Blue(0.9521976719614024, 0.5875776333323985)

Edge: (0.9750, 0.3877), (0.9522, 0.5876) [0.2012]

Edge: (0.9747, 0.8435), (0.9522, 0.5876) [0.2569]

Edge: (0.9522, 0.5876), (0.9747, 0.8435) [0.2569]

Node/Point: Green(0.18979708183916344, 0.09419511472958964)

Edge: (0.1963, 0.5060), (0.1898, 0.0942) [0.4118]

Edge: (0.1898, 0.0942), (0.1401, 0.1299) [0.0612]

Edge: (0.1401, 0.1299), (0.1898, 0.0942) [0.0612]

Node/Point: Red(0.3458905317461278, 0.5121468454621434)

Edge: (0.3459, 0.5121), (0.3682, 0.3634) [0.1504]

Edge: (0.3459, 0.5121), (0.1652, 0.6996) [0.2604]

Edge: (0.3682, 0.3634), (0.3459, 0.5121) [0.1504]

Edge: (0.1652, 0.6996), (0.3459, 0.5121) [0.2604]

Node/Point: Red(0.4876760707488189, 0.8323105587452567)

Edge: (0.4877, 0.8323), (0.4702, 0.9527) [0.1216]

Edge: (0.4877, 0.8323), (0.8050, 0.9051) [0.3256]

Edge: (0.8050, 0.9051), (0.4877, 0.8323) [0.3256]

Edge: (0.4702, 0.9527), (0.4877, 0.8323) [0.1216]

Node/Point: Red(0.4826641334433962, 0.23837091582125036)

Edge: (0.4827, 0.2384), (0.5855, 0.3046) [0.1223]

Edge: (0.5855, 0.3046), (0.4827, 0.2384) [0.1223]

Node/Point: Red(0.040431807567386846, 0.9267989027156649)

Edge: (0.0404, 0.9268), (0.2440, 0.9666) [0.2074]

Edge: (0.0404, 0.9268), (0.1745, 0.6458) [0.3113]

Edge: (0.0404, 0.9268), (0.0931, 0.5676) [0.3631]

Edge: (0.0404, 0.9268), (0.1671, 0.5174) [0.4286]

Edge: (0.1745, 0.6458), (0.0404, 0.9268) [0.3113]

Edge: (0.2440, 0.9666), (0.0404, 0.9268) [0.2074]

Edge: (0.0931, 0.5676), (0.0404, 0.9268) [0.3631]

Node/Point: Green(0.17445221543155953, 0.6458117839127512)

Edge: (0.1963, 0.5060), (0.1745, 0.6458) [0.1415]

Edge: (0.0404, 0.9268), (0.1745, 0.6458) [0.3113]

Edge: (0.1745, 0.6458), (0.1671, 0.5174) [0.1286]

Edge: (0.1745, 0.6458), (0.1963, 0.5060) [0.1415]

Edge: (0.1745, 0.6458), (0.0404, 0.9268) [0.3113]

Edge: (0.1745, 0.6458), (0.3729, 0.0953) [0.5852]

Node/Point: Green(0.7160402461802806, 0.8431541447578813)

Edge: (0.4259, 0.7993), (0.7160, 0.8432) [0.2935]

Edge: (0.7160, 0.8432), (0.4259, 0.7993) [0.2935]

Node/Point: Green(0.8049858918296349, 0.9051495938831684)

Edge: (0.8082, 0.9398), (0.8050, 0.9051) [0.0348]

Edge: (0.4877, 0.8323), (0.8050, 0.9051) [0.3256]

Edge: (0.8050, 0.9051), (0.4877, 0.8323) [0.3256]

Edge: (0.8050, 0.9051), (0.7556, 0.5799) [0.3290]

Node/Point: Green(0.5855121970067165, 0.3045751408961115)

Edge: (0.4827, 0.2384), (0.5855, 0.3046) [0.1223]

Edge: (0.5855, 0.3046), (0.4827, 0.2384) [0.1223]

Node/Point: Green(0.3832414822986333, 0.8542626200025041)

Edge: (0.5394, 0.4178), (0.3832, 0.8543) [0.4636]

Edge: (0.4259, 0.7993), (0.3832, 0.8543) [0.0696]

Edge: (0.3832, 0.8543), (0.4259, 0.7993) [0.0696]

Edge: (0.3832, 0.8543), (0.4702, 0.9527) [0.1313]

Edge: (0.3832, 0.8543), (0.5391, 0.4330) [0.4492]

Edge: (0.3832, 0.8543), (0.5394, 0.4178) [0.4636]

Edge: (0.5391, 0.4330), (0.3832, 0.8543) [0.4492]

Edge: (0.4702, 0.9527), (0.3832, 0.8543) [0.1313]

Node/Point: Green(0.6134513658272677, 0.5668173309780451)

Edge: (0.5394, 0.4178), (0.6135, 0.5668) [0.1665]

Edge: (0.6135, 0.5668), (0.5394, 0.4178) [0.1665]

Edge: (0.6135, 0.5668), (0.4661, 0.7160) [0.2097]

Node/Point: Green(0.4607466673647489, 0.5564714355075749)

Edge: (0.4885, 0.3831), (0.4607, 0.5565) [0.1755]

Node/Point: Green(0.8161847146108876, 0.7729899790748138)

Edge: (0.8082, 0.9398), (0.8162, 0.7730) [0.1670]

Edge: (0.8162, 0.7730), (0.8803, 0.6703) [0.1211]

Edge: (0.8162, 0.7730), (0.8082, 0.9398) [0.1670]

Edge: (0.8803, 0.6703), (0.8162, 0.7730) [0.1211]

Edge: (0.7554, 0.3069), (0.8162, 0.7730) [0.4701]

Node/Point: Green(0.10381525859408192, 0.2439806489910349)

Edge: (0.1322, 0.1398), (0.1038, 0.2440) [0.1080]

Edge: (0.1038, 0.2440), (0.1322, 0.1398) [0.1080]

Edge: (0.1038, 0.2440), (0.0931, 0.5676) [0.3238]

Edge: (0.0931, 0.5676), (0.1038, 0.2440) [0.3238]

Node/Point: Blue(0.9716019456334648, 0.6133051344752808)

Edge: (0.9750, 0.3877), (0.9716, 0.6133) [0.2257]

Edge: (0.9716, 0.6133), (0.9747, 0.8435) [0.2302]

Node/Point: Green(0.5619768645136924, 0.6200596353727943)

Edge: (0.4259, 0.7993), (0.5620, 0.6201) [0.2250]

Edge: (0.5620, 0.6201), (0.7242, 0.4686) [0.2219]

Edge: (0.5620, 0.6201), (0.4259, 0.7993) [0.2250]

Edge: (0.7242, 0.4686), (0.5620, 0.6201) [0.2219]

Node/Point: Green(0.36816139347579757, 0.36341713818483845)

Edge: (0.4885, 0.3831), (0.3682, 0.3634) [0.1220]

Edge: (0.3459, 0.5121), (0.3682, 0.3634) [0.1504]

Edge: (0.3682, 0.3634), (0.3459, 0.5121) [0.1504]

Edge: (0.1652, 0.6996), (0.3682, 0.3634) [0.3927]

Node/Point: Blue(0.8803120860768353, 0.6702611100824427)

Edge: (0.9750, 0.3877), (0.8803, 0.6703) [0.2980]

Edge: (0.8162, 0.7730), (0.8803, 0.6703) [0.1211]

Edge: (0.8803, 0.6703), (0.8162, 0.7730) [0.1211]

Node/Point: Red(0.14009007089862846, 0.12987451771007041)

Edge: (0.1898, 0.0942), (0.1401, 0.1299) [0.0612]

Edge: (0.1401, 0.1299), (0.1898, 0.0942) [0.0612]

Node/Point: Red(0.46610034480383433, 0.7159847447361322)

Edge: (0.6135, 0.5668), (0.4661, 0.7160) [0.2097]

Node/Point: Green(0.4516256070812088, 0.792338635783865)

Edge: (0.4259, 0.7993), (0.4516, 0.7923) [0.0267]

Edge: (0.4516, 0.7923), (0.4259, 0.7993) [0.0267]

Edge: (0.4516, 0.7923), (0.6569, 0.6501) [0.2498]

Edge: (0.6569, 0.6501), (0.4516, 0.7923) [0.2498]

Node/Point: Blue(0.5391315919481685, 0.432950065134988)

Edge: (0.5394, 0.4178), (0.5391, 0.4330) [0.0152]

Edge: (0.3832, 0.8543), (0.5391, 0.4330) [0.4492]

Edge: (0.5391, 0.4330), (0.3832, 0.8543) [0.4492]

Node/Point: Blue(0.16521823434745242, 0.6996065445432955)

Edge: (0.4885, 0.3831), (0.1652, 0.6996) [0.4524]

Edge: (0.3459, 0.5121), (0.1652, 0.6996) [0.2604]

Edge: (0.1652, 0.6996), (0.3459, 0.5121) [0.2604]

Edge: (0.1652, 0.6996), (0.3682, 0.3634) [0.3927]

Edge: (0.1652, 0.6996), (0.4885, 0.3831) [0.4524]

Node/Point: Blue(0.47022939378486006, 0.9526517966929929)

Edge: (0.4877, 0.8323), (0.4702, 0.9527) [0.1216]

Edge: (0.3832, 0.8543), (0.4702, 0.9527) [0.1313]

Edge: (0.4702, 0.9527), (0.4877, 0.8323) [0.1216]

Edge: (0.4702, 0.9527), (0.3832, 0.8543) [0.1313]

Edge: (0.4702, 0.9527), (0.6693, 0.9614) [0.1993]

Edge: (0.6693, 0.9614), (0.4702, 0.9527) [0.1993]

Node/Point: Red(0.6569316136738222, 0.6501083557532625)

Edge: (0.4516, 0.7923), (0.6569, 0.6501) [0.2498]

Edge: (0.6569, 0.6501), (0.7556, 0.5799) [0.1211]

Edge: (0.6569, 0.6501), (0.4516, 0.7923) [0.2498]

Node/Point: Green(0.24397771972110294, 0.9666271133685824)

Edge: (0.5394, 0.4178), (0.2440, 0.9666) [0.6233]

Edge: (0.0404, 0.9268), (0.2440, 0.9666) [0.2074]

Edge: (0.2440, 0.9666), (0.0404, 0.9268) [0.2074]

Edge: (0.2440, 0.9666), (0.6305, 0.9768) [0.3867]

Edge: (0.2440, 0.9666), (0.5394, 0.4178) [0.6233]

Edge: (0.6305, 0.9768), (0.2440, 0.9666) [0.3867]

Node/Point: Green(0.12685105219091275, 0.06743177194930294)

Edge: (0.1963, 0.5060), (0.1269, 0.0674) [0.4440]

Edge: (0.1269, 0.0674), (0.1963, 0.5060) [0.4440]

Edge: (0.1269, 0.0674), (0.1671, 0.5174) [0.4518]

Edge: (0.1671, 0.5174), (0.1269, 0.0674) [0.4518]

Node/Point: Red(0.6693390241312727, 0.9613738940927091)

Edge: (0.4702, 0.9527), (0.6693, 0.9614) [0.1993]

Edge: (0.6693, 0.9614), (0.4702, 0.9527) [0.1993]

Node/Point: Blue(0.09312845000371084, 0.5675599017831655)

Edge: (0.1322, 0.1398), (0.0931, 0.5676) [0.4295]

Edge: (0.0404, 0.9268), (0.0931, 0.5676) [0.3631]

Edge: (0.1038, 0.2440), (0.0931, 0.5676) [0.3238]

Edge: (0.0931, 0.5676), (0.1038, 0.2440) [0.3238]

Edge: (0.0931, 0.5676), (0.0404, 0.9268) [0.3631]

Node/Point: Green(0.5057969543234626, 0.3260150473076202)

Edge: (0.4885, 0.3831), (0.5058, 0.3260) [0.0597]

Edge: (0.5058, 0.3260), (0.4885, 0.3831) [0.0597]

Edge: (0.5058, 0.3260), (0.3729, 0.0953) [0.2663]

Edge: (0.3729, 0.0953), (0.5058, 0.3260) [0.2663]

Node/Point: Blue(0.7553633606267195, 0.3068907957147399)

Edge: (0.8082, 0.9398), (0.7554, 0.3069) [0.6351]

Edge: (0.9218, 0.0271), (0.7554, 0.3069) [0.3255]

Edge: (0.7554, 0.3069), (0.8162, 0.7730) [0.4701]

Edge: (0.7554, 0.3069), (0.8082, 0.9398) [0.6351]

Node/Point: Red(0.3728518798468631, 0.0953133821124379)

Edge: (0.9218, 0.0271), (0.3729, 0.0953) [0.5532]

Edge: (0.1745, 0.6458), (0.3729, 0.0953) [0.5852]

Edge: (0.5058, 0.3260), (0.3729, 0.0953) [0.2663]

Edge: (0.3729, 0.0953), (0.5058, 0.3260) [0.2663]

Edge: (0.3729, 0.0953), (0.9218, 0.0271) [0.5532]

Node/Point: Green(0.566339976746607, 0.598739999137255)

Edge: (0.5394, 0.4178), (0.5663, 0.5987) [0.1830]

Node/Point: Blue(0.167142867861244, 0.5173979910556633)

Edge: (0.1963, 0.5060), (0.1671, 0.5174) [0.0313]

Edge: (0.0404, 0.9268), (0.1671, 0.5174) [0.4286]

Edge: (0.1745, 0.6458), (0.1671, 0.5174) [0.1286]

Edge: (0.1269, 0.0674), (0.1671, 0.5174) [0.4518]

Edge: (0.1671, 0.5174), (0.1269, 0.0674) [0.4518]

Node/Point: Green(0.6607100350380152, 0.2909107843458377)

Edge: (0.4885, 0.3831), (0.6607, 0.2909) [0.1953]

Edge: (0.6923, 0.3472), (0.6607, 0.2909) [0.0646]

Node/Point: Blue(0.7241652486743859, 0.4685720739424747)

Edge: (0.4885, 0.3831), (0.7242, 0.4686) [0.2507]

Edge: (0.6923, 0.3472), (0.7242, 0.4686) [0.1255]

Edge: (0.5620, 0.6201), (0.7242, 0.4686) [0.2219]

Edge: (0.7242, 0.4686), (0.6923, 0.3472) [0.1255]

Edge: (0.7242, 0.4686), (0.5620, 0.6201) [0.2219]

Node/Point: Green(0.7550321813152515, 0.3080484893988258)

Edge: (0.8082, 0.9398), (0.7550, 0.3080) [0.6340]

Edge: (0.6923, 0.3472), (0.7550, 0.3080) [0.0739]

Edge: (0.7550, 0.3080), (0.6923, 0.3472) [0.0739]

Edge: (0.7550, 0.3080), (0.7556, 0.5799) [0.2718]

Edge: (0.7556, 0.5799), (0.7550, 0.3080) [0.2718]

Node/Point: Red(0.6304980777756695, 0.976828939875013)

Edge: (0.2440, 0.9666), (0.6305, 0.9768) [0.3867]

Edge: (0.6305, 0.9768), (0.2440, 0.9666) [0.3867]

Node/Point: Blue(0.755648415938758, 0.5798794053762375)

Edge: (0.4259, 0.7993), (0.7556, 0.5799) [0.3961]

Edge: (0.8050, 0.9051), (0.7556, 0.5799) [0.3290]

Edge: (0.6569, 0.6501), (0.7556, 0.5799) [0.1211]

Edge: (0.7550, 0.3080), (0.7556, 0.5799) [0.2718]

Edge: (0.7556, 0.5799), (0.7550, 0.3080) [0.2718]

//at this point, algorithm was running unreasonably long

Local search genetic algorithm results and min conflicts:

The graph is:  
Node/Point: Colorless(0.483814376303803, 0.3535031384108174)

Edge: (0.4838, 0.3535), (0.5890, 0.3114) [0.1133]

Edge: (0.4838, 0.3535), (0.5844, 0.5768) [0.2449]

Edge: (0.4838, 0.3535), (0.4483, 0.6492) [0.2978]

Edge: (0.4838, 0.3535), (0.6381, 0.6327) [0.3190]

Edge: (0.5844, 0.5768), (0.4838, 0.3535) [0.2449]

Edge: (0.4483, 0.6492), (0.4838, 0.3535) [0.2978]

Node/Point: Colorless(0.3857765282776462, 0.9667140195265629)

Edge: (0.3858, 0.9667), (0.5317, 0.8745) [0.1726]

Edge: (0.3858, 0.9667), (0.7088, 0.7595) [0.3838]

Edge: (0.3858, 0.9667), (0.7446, 0.6748) [0.4625]

Edge: (0.3858, 0.9667), (0.3626, 0.1236) [0.8435]

Edge: (0.7088, 0.7595), (0.3858, 0.9667) [0.3838]

Edge: (0.3626, 0.1236), (0.3858, 0.9667) [0.8435]

Node/Point: Colorless(0.7088241044732686, 0.7594647908040538)

Edge: (0.3858, 0.9667), (0.7088, 0.7595) [0.3838]

Edge: (0.7088, 0.7595), (0.5317, 0.8745) [0.2113]

Edge: (0.7088, 0.7595), (0.3858, 0.9667) [0.3838]

Edge: (0.7088, 0.7595), (0.9220, 0.3881) [0.4282]

Edge: (0.9220, 0.3881), (0.7088, 0.7595) [0.4282]

Edge: (0.5317, 0.8745), (0.7088, 0.7595) [0.2113]

Node/Point: Colorless(0.5277189638394438, 0.6884969459607977)

Edge: (0.5277, 0.6885), (0.5762, 0.5867) [0.1128]

Edge: (0.5762, 0.5867), (0.5277, 0.6885) [0.1128]

Node/Point: Colorless(0.7445535560872597, 0.674834946908133)

Edge: (0.3858, 0.9667), (0.7446, 0.6748) [0.4625]

Edge: (0.7446, 0.6748), (0.6174, 0.4186) [0.2860]

Node/Point: Colorless(0.9842287775556443, 0.2614121793230103)

Edge: (0.9842, 0.2614), (0.9220, 0.3881) [0.1411]

Edge: (0.9842, 0.2614), (0.5890, 0.3114) [0.3983]

Edge: (0.9220, 0.3881), (0.9842, 0.2614) [0.1411]

Node/Point: Colorless(0.11071688543087088, 0.5061882689851611)

Edge: (0.1107, 0.5062), (0.1815, 0.5292) [0.0744]

Edge: (0.1815, 0.5292), (0.1107, 0.5062) [0.0744]

Edge: (0.2540, 0.0580), (0.1107, 0.5062) [0.4705]

Node/Point: Colorless(0.9219992383712127, 0.3880790913027694)

Edge: (0.7088, 0.7595), (0.9220, 0.3881) [0.4282]

Edge: (0.9842, 0.2614), (0.9220, 0.3881) [0.1411]

Edge: (0.9220, 0.3881), (0.9842, 0.2614) [0.1411]

Edge: (0.9220, 0.3881), (0.7088, 0.7595) [0.4282]

Node/Point: Colorless(0.5844115294166926, 0.5768158510514588)

Edge: (0.4838, 0.3535), (0.5844, 0.5768) [0.2449]

Edge: (0.5844, 0.5768), (0.4838, 0.3535) [0.2449]

Node/Point: Colorless(0.531652109695524, 0.8745185143564834)

Edge: (0.3858, 0.9667), (0.5317, 0.8745) [0.1726]

Edge: (0.7088, 0.7595), (0.5317, 0.8745) [0.2113]

Edge: (0.5317, 0.8745), (0.7088, 0.7595) [0.2113]

Node/Point: Colorless(0.576205462911782, 0.5866626519355009)

Edge: (0.5277, 0.6885), (0.5762, 0.5867) [0.1128]

Edge: (0.5762, 0.5867), (0.5277, 0.6885) [0.1128]

Node/Point: Colorless(0.44831234601193937, 0.6492147722007329)

Edge: (0.4838, 0.3535), (0.4483, 0.6492) [0.2978]

Edge: (0.4483, 0.6492), (0.4838, 0.3535) [0.2978]

Node/Point: Colorless(0.6174237628499215, 0.41860967188756815)

Edge: (0.7446, 0.6748), (0.6174, 0.4186) [0.2860]

Edge: (0.6174, 0.4186), (0.5949, 0.3982) [0.0304]

Edge: (0.6174, 0.4186), (0.5890, 0.3114) [0.1109]

Edge: (0.5890, 0.3114), (0.6174, 0.4186) [0.1109]

Edge: (0.6381, 0.6327), (0.6174, 0.4186) [0.2150]

Node/Point: Colorless(0.18146869421581158, 0.5291722390226559)

Edge: (0.1107, 0.5062), (0.1815, 0.5292) [0.0744]

Edge: (0.1815, 0.5292), (0.1107, 0.5062) [0.0744]

Node/Point: Colorless(0.589036223001158, 0.3113955261261171)

Edge: (0.4838, 0.3535), (0.5890, 0.3114) [0.1133]

Edge: (0.9842, 0.2614), (0.5890, 0.3114) [0.3983]

Edge: (0.6174, 0.4186), (0.5890, 0.3114) [0.1109]

Edge: (0.5890, 0.3114), (0.6174, 0.4186) [0.1109]

Node/Point: Colorless(0.6381351362844995, 0.6326560382752688)

Edge: (0.4838, 0.3535), (0.6381, 0.6327) [0.3190]

Edge: (0.6381, 0.6327), (0.6174, 0.4186) [0.2150]

Node/Point: Colorless(0.3625865386258357, 0.12357274081784175)

Edge: (0.3858, 0.9667), (0.3626, 0.1236) [0.8435]

Edge: (0.3626, 0.1236), (0.2091, 0.9491) [0.8397]

Edge: (0.3626, 0.1236), (0.3858, 0.9667) [0.8435]

Edge: (0.2091, 0.9491), (0.3626, 0.1236) [0.8397]

Node/Point: Colorless(0.2539921789749905, 0.05803147416036747)

Edge: (0.2540, 0.0580), (0.1107, 0.5062) [0.4705]

Node/Point: Colorless(0.5948930640037299, 0.3982462391930419)

Edge: (0.6174, 0.4186), (0.5949, 0.3982) [0.0304]

Node/Point: Colorless(0.2091006914107324, 0.9490942619586481)

Edge: (0.3626, 0.1236), (0.2091, 0.9491) [0.8397]

Edge: (0.2091, 0.9491), (0.3626, 0.1236) [0.8397]

csci.pkg446.project1.LocalSearch@eed1f14

It took 1 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Blue(0.5207895776634351, 0.20494305633616605)

Edge: (0.5208, 0.2049), (0.6893, 0.3038) [0.1954]

Edge: (0.5208, 0.2049), (0.4226, 0.0171) [0.2120]

Edge: (0.5208, 0.2049), (0.2480, 0.3125) [0.2932]

Edge: (0.2480, 0.3125), (0.5208, 0.2049) [0.2932]

Edge: (0.4226, 0.0171), (0.5208, 0.2049) [0.2120]

Node/Point: Red(0.6979459666881577, 0.34951008547302365)

Edge: (0.6979, 0.3495), (0.6893, 0.3038) [0.0465]

Edge: (0.6979, 0.3495), (0.6365, 0.5763) [0.2350]

Edge: (0.6979, 0.3495), (0.0150, 0.8385) [0.8399]

Edge: (0.0150, 0.8385), (0.6979, 0.3495) [0.8399]

Edge: (0.6893, 0.3038), (0.6979, 0.3495) [0.0465]

Node/Point: Blue(0.7219642244263274, 0.28281341007020844)

Edge: (0.7220, 0.2828), (0.7980, 0.4621) [0.1947]

Edge: (0.7220, 0.2828), (0.4226, 0.0171) [0.4003]

Edge: (0.7980, 0.4621), (0.7220, 0.2828) [0.1947]

Node/Point: Red(0.24798251173807473, 0.312458369977625)

Edge: (0.5208, 0.2049), (0.2480, 0.3125) [0.2932]

Edge: (0.2480, 0.3125), (0.5208, 0.2049) [0.2932]

Node/Point: Green(0.014993426135093135, 0.8384654417961097)

Edge: (0.6979, 0.3495), (0.0150, 0.8385) [0.8399]

Edge: (0.0150, 0.8385), (0.6365, 0.5763) [0.6746]

Edge: (0.0150, 0.8385), (0.6979, 0.3495) [0.8399]

Edge: (0.6365, 0.5763), (0.0150, 0.8385) [0.6746]

Node/Point: Blue(0.636515206064782, 0.5763017003337337)

Edge: (0.6979, 0.3495), (0.6365, 0.5763) [0.2350]

Edge: (0.0150, 0.8385), (0.6365, 0.5763) [0.6746]

Edge: (0.6365, 0.5763), (0.0150, 0.8385) [0.6746]

Node/Point: Red(0.7979567479902162, 0.46208688567212775)

Edge: (0.7220, 0.2828), (0.7980, 0.4621) [0.1947]

Edge: (0.7980, 0.4621), (0.7220, 0.2828) [0.1947]

Node/Point: Blue(0.042665876441772776, 0.7430791257518556)

Node/Point: Red(0.42255771480970683, 0.017109041111419532)

Edge: (0.5208, 0.2049), (0.4226, 0.0171) [0.2120]

Edge: (0.7220, 0.2828), (0.4226, 0.0171) [0.4003]

Edge: (0.4226, 0.0171), (0.5208, 0.2049) [0.2120]

Node/Point: Green(0.6893387231785559, 0.30384788528477213)

Edge: (0.5208, 0.2049), (0.6893, 0.3038) [0.1954]

Edge: (0.6979, 0.3495), (0.6893, 0.3038) [0.0465]

Edge: (0.6893, 0.3038), (0.6979, 0.3495) [0.0465]

csci.pkg446.project1.MinConflicts@7229724f

Took 130 minConflict for n=10

The solution graph is:

Node/Point: Red(0.5207895776634351, 0.20494305633616605)

Edge: (0.5208, 0.2049), (0.6893, 0.3038) [0.1954]

Edge: (0.5208, 0.2049), (0.4226, 0.0171) [0.2120]

Edge: (0.5208, 0.2049), (0.2480, 0.3125) [0.2932]

Edge: (0.2480, 0.3125), (0.5208, 0.2049) [0.2932]

Edge: (0.4226, 0.0171), (0.5208, 0.2049) [0.2120]

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Edge: (0.6979, 0.3495), (0.6893, 0.3038) [0.0465]

Edge: (0.6979, 0.3495), (0.6365, 0.5763) [0.2350]

Edge: (0.6979, 0.3495), (0.0150, 0.8385) [0.8399]

Edge: (0.0150, 0.8385), (0.6979, 0.3495) [0.8399]

Edge: (0.6893, 0.3038), (0.6979, 0.3495) [0.0465]

Node/Point: Green(0.7219642244263274, 0.28281341007020844)

Edge: (0.7220, 0.2828), (0.7980, 0.4621) [0.1947]

Edge: (0.7220, 0.2828), (0.4226, 0.0171) [0.4003]

Edge: (0.7980, 0.4621), (0.7220, 0.2828) [0.1947]

Node/Point: Green(0.24798251173807473, 0.312458369977625)

Edge: (0.5208, 0.2049), (0.2480, 0.3125) [0.2932]

Edge: (0.2480, 0.3125), (0.5208, 0.2049) [0.2932]

Node/Point: Red(0.014993426135093135, 0.8384654417961097)

Edge: (0.6979, 0.3495), (0.0150, 0.8385) [0.8399]

Edge: (0.0150, 0.8385), (0.6365, 0.5763) [0.6746]

Edge: (0.0150, 0.8385), (0.6979, 0.3495) [0.8399]

Edge: (0.6365, 0.5763), (0.0150, 0.8385) [0.6746]

Node/Point: Blue(0.636515206064782, 0.5763017003337337)

Edge: (0.6979, 0.3495), (0.6365, 0.5763) [0.2350]

Edge: (0.0150, 0.8385), (0.6365, 0.5763) [0.6746]

Edge: (0.6365, 0.5763), (0.0150, 0.8385) [0.6746]

Node/Point: Blue(0.7979567479902162, 0.46208688567212775)

Edge: (0.7220, 0.2828), (0.7980, 0.4621) [0.1947]

Edge: (0.7980, 0.4621), (0.7220, 0.2828) [0.1947]

Node/Point: Blue(0.042665876441772776, 0.7430791257518556)

Node/Point: Blue(0.42255771480970683, 0.017109041111419532)

Edge: (0.5208, 0.2049), (0.4226, 0.0171) [0.2120]

Edge: (0.7220, 0.2828), (0.4226, 0.0171) [0.4003]

Edge: (0.4226, 0.0171), (0.5208, 0.2049) [0.2120]

Node/Point: Blue(0.6893387231785559, 0.30384788528477213)

Edge: (0.5208, 0.2049), (0.6893, 0.3038) [0.1954]

Edge: (0.6979, 0.3495), (0.6893, 0.3038) [0.0465]

Edge: (0.6893, 0.3038), (0.6979, 0.3495) [0.0465]

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Red(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Green(0.7219642244263274, 0.28281341007020844)

Node/Point: Green(0.24798251173807473, 0.312458369977625)

Node/Point: Red(0.014993426135093135, 0.8384654417961097)

Node/Point: Blue(0.636515206064782, 0.5763017003337337)

Node/Point: Blue(0.7979567479902162, 0.46208688567212775)

Node/Point: Blue(0.042665876441772776, 0.7430791257518556)

Node/Point: Blue(0.42255771480970683, 0.017109041111419532)

Node/Point: Blue(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Blue(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Green(0.7219642244263274, 0.28281341007020844)

Node/Point: Green(0.24798251173807473, 0.312458369977625)

Node/Point: Green(0.014993426135093135, 0.8384654417961097)

Node/Point: Blue(0.636515206064782, 0.5763017003337337)

Node/Point: Green(0.7979567479902162, 0.46208688567212775)

Node/Point: Green(0.042665876441772776, 0.7430791257518556)

Node/Point: Yellow(0.42255771480970683, 0.017109041111419532)

Node/Point: Blue(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Red(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Red(0.7219642244263274, 0.28281341007020844)

Node/Point: Red(0.24798251173807473, 0.312458369977625)

Node/Point: Red(0.014993426135093135, 0.8384654417961097)

Node/Point: Green(0.636515206064782, 0.5763017003337337)

Node/Point: Red(0.7979567479902162, 0.46208688567212775)

Node/Point: Yellow(0.042665876441772776, 0.7430791257518556)

Node/Point: Red(0.42255771480970683, 0.017109041111419532)

Node/Point: Green(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Green(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Yellow(0.7219642244263274, 0.28281341007020844)

Node/Point: Yellow(0.24798251173807473, 0.312458369977625)

Node/Point: Blue(0.014993426135093135, 0.8384654417961097)

Node/Point: Yellow(0.636515206064782, 0.5763017003337337)

Node/Point: Green(0.7979567479902162, 0.46208688567212775)

Node/Point: Blue(0.042665876441772776, 0.7430791257518556)

Node/Point: Red(0.42255771480970683, 0.017109041111419532)

Node/Point: Red(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Red(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Blue(0.7219642244263274, 0.28281341007020844)

Node/Point: Red(0.24798251173807473, 0.312458369977625)

Node/Point: Green(0.014993426135093135, 0.8384654417961097)

Node/Point: Blue(0.636515206064782, 0.5763017003337337)

Node/Point: Green(0.7979567479902162, 0.46208688567212775)

Node/Point: Red(0.042665876441772776, 0.7430791257518556)

Node/Point: Blue(0.42255771480970683, 0.017109041111419532)

Node/Point: Red(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Yellow(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Yellow(0.7219642244263274, 0.28281341007020844)

Node/Point: Green(0.24798251173807473, 0.312458369977625)

Node/Point: Blue(0.014993426135093135, 0.8384654417961097)

Node/Point: Red(0.636515206064782, 0.5763017003337337)

Node/Point: Blue(0.7979567479902162, 0.46208688567212775)

Node/Point: Blue(0.042665876441772776, 0.7430791257518556)

Node/Point: Yellow(0.42255771480970683, 0.017109041111419532)

Node/Point: Yellow(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Red(0.5207895776634351, 0.20494305633616605)

Node/Point: Green(0.6979459666881577, 0.34951008547302365)

Node/Point: Red(0.7219642244263274, 0.28281341007020844)

Node/Point: Green(0.24798251173807473, 0.312458369977625)

Node/Point: Red(0.014993426135093135, 0.8384654417961097)

Node/Point: Red(0.636515206064782, 0.5763017003337337)

Node/Point: Green(0.7979567479902162, 0.46208688567212775)

Node/Point: Yellow(0.042665876441772776, 0.7430791257518556)

Node/Point: Blue(0.42255771480970683, 0.017109041111419532)

Node/Point: Green(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.

csci.pkg446.project1.LocalSearch@eed1f14

It took 0 rounds to find a match using a genetic algorithm.

The solution graph is:

Node/Point: Blue(0.5207895776634351, 0.20494305633616605)

Node/Point: Red(0.6979459666881577, 0.34951008547302365)

Node/Point: Blue(0.7219642244263274, 0.28281341007020844)

Node/Point: Yellow(0.24798251173807473, 0.312458369977625)

Node/Point: Green(0.014993426135093135, 0.8384654417961097)

Node/Point: Green(0.636515206064782, 0.5763017003337337)

Node/Point: Red(0.7979567479902162, 0.46208688567212775)

Node/Point: Red(0.042665876441772776, 0.7430791257518556)

Node/Point: Yellow(0.42255771480970683, 0.017109041111419532)

Node/Point: Blue(0.6893387231785559, 0.30384788528477213)

csci.pkg446.project1.MinConflicts@7229724f

Coloring not Found.