

This is the way of Randomly choosing the centroids at the beginning.*****		
Repeating the 1 time.=====		
Randomly generated centroids are:	54. 628414896600894 54. 47635273763112 22. 690933703250934 37. 4600928539518 29. 152232219800894 15. 751636148125087	
Starting Centroids:	44. 22325647058823 35. 61099550561797 41. 078611538461544	42. 61873999999999 40. 00938314606741 24. 407126923076923
Starting Centroids:	43. 90780000000001 33. 9084338252942 40. 62018125000001	41. 828591 41. 42077352941175 25. 579424999999997
Starting Centroids:	43. 63599541284406 32. 76164310344828 40. 603045454545466	41. 43913211009174 42. 21591206896551 25. 837121212121207
Starting Centroids:	43. 26175338983052 31. 739444897959192 40. 493321212121224	41. 3432953488372 42. 8946 25. 825118181818176
Starting Centroids:	43. 08081557370515 31. 205782222222233 40. 493321212121224	41. 201595081967206 40. 09310666666667 25. 825118181818176
Starting Centroids:	42. 89966269841271 30. 603956097560985 40. 493321212121224	41. 24490952380951 43. 14453170731708 25. 825118181818176
Starting Centroids:	42. 772720155083776 30. 06417894736843 40. 493321212121224	41. 884739853488372 42. 96050789473685 25. 825118181818176
Starting Centroids:	42. 55996343283583 29. 002563636363636 40. 493321212121224	41. 495791791044766 42. 586312121212124 25. 825118181818176
Starting Centroids:	42. 38648985507247 27. 9580724137931 40. 493321212121224	41. 63508913043477 42. 07386551724138 25. 825118181818176
Starting Centroids:	42. 19673840579711 27. 3881444444444443 40. 96484285714288	41. 78805289855071 41. 97784814814815 26. 224574285714283
Starting Centroids:	42. 16019202898551 27. 094946153846145 40. 939561111111113	41. 88473985507245 41. 76829615384615 26. 442874999999997
Starting Centroids:	42. 16019202898551 27. 094946153846145 40. 939561111111113	41. 88473985507245 41. 76829615384615 26. 442874999999997
Loop 12 times for finding the final centroids.		
Final Centroids are:	42. 16019202898551 27. 094946153846145 40. 939561111111113	41. 88473985507245 41. 76829615384615 26. 442874999999997
IV is: 1034.6494630885463		
EV is: 1619.7627287962114		
IV / EV is: 0.6387660641243953		
Repeating the 2 time.=====		
Randomly generated centroids are:	15. 645452297360754 35. 91215755552343 18. 2301100336433 26. 383390072800694 17. 80155026406665 34. 10134543595036	
Starting Centroids:	22. 298157142857146 40. 539332258064526 40. 639462345679014	45. 60342857142858 25. 332116129032254 41. 441319135802466
Starting Centroids:	25. 133235 41. 09810882352943 41. 75615684931507	42. 33801 26. 005082352941173 41. 692330821917785
Starting Centroids:	25. 848318181818176 40. 96484285714288 41. 91585174825175	41. 9295409090909 26. 224574285714283 41. 807423999999999
Starting Centroids:	26. 186056521739133 40. 939561111111113 41. 9879134751773	41. 86803043478261 26. 442874999999997 41. 86599361702126
Starting Centroids:	26. 802999999999997 40. 939561111111113 42. 10431726618705	41. 807423999999999 26. 442874999999997 41. 87686474820143
Starting Centroids:	27. 094946153846145 40. 939561111111113 42. 16019202898551	41. 76829615384615 26. 442874999999997 41. 88473985507245
Starting Centroids:	27. 094946153846145 40. 939561111111113 42. 16019202898551	41. 76829615384615 26. 442874999999997 41. 88473985507245
Loop 7 times for finding the final centroids.		
Final Centroids are:	27. 094946153846145 40. 939561111111113 42. 16019202898551	41. 76829615384615 26. 442874999999997 41. 88473985507245
IV is: 1034.6494630885459		
EV is: 1619.7627287962118		
IV / EV is: 0.6387660641243949		
Repeating the 3 time.=====		
Randomly generated centroids are:	25. 92171622200181 53. 382046810473256 54. 31597946184557 27. 045340492227425 33. 1875217993007 44. 45248833390246	
Starting Centroids:	23. 418766666666667 44. 35636904761906 39. 427099999999999	47. 1629 29. 916109523809528 41. 30631118421051
Starting Centroids:	24. 824526315789473 41. 87463720930234 41. 47915869565217	42. 30463684210526 28. 069411627906987 42. 0814528955071
Starting Centroids:	25. 848318181818176 40. 963420000000001 41. 95072101449274	41. 9295409090909 27. 267542499999998 42. 06421521739129
Starting Centroids:	26. 505570833333334 40. 904450000000002 42. 07171376811594	41. 703658333333333 26. 868939473684208 42. 000766666666666
Starting Centroids:	26. 802999999999997 40. 96332972972975 42. 10638478260869	41. 807423999999999 26. 654348648648643 41. 93200579710144
Starting Centroids:	27. 094946153846145 40. 96332972972975 42. 16268248175183	41. 76829615384615 26. 654348648648643 41. 9403408759124
Starting Centroids:	27. 094946153846145 40. 96332972972975 42. 16268248175183	41. 76829615384615 26. 654348648648643 41. 9403408759124
Loop 7 times for finding the final centroids.		
Final Centroids are:	27. 094946153846145 40. 96332972972975 42. 16268248175183	41. 76829615384615 26. 654348648648643 41. 9403408759124
IV is: 1034.5687161633898		
EV is: 1628.0141051995056		
IV / EV is: 0.6354789635170932		
Repeating the 4 time.=====		
Randomly generated centroids are:	26. 989119342653254 21. 240244368971375 24. 27604350973702 43. 97284943801243 23. 468825969686094 35. 45914318652258	
Starting Centroids:	41. 03664242424244 40. 332802857142845 36. 873988888888888	25. 785660606060603 42. 79034785714284 36. 164362962962954
Starting Centroids:	41. 861820689655175 41. 83184263565892 33. 00235238095238	25. 207706896551723 42. 75563720930233 37. 416966666666674
Starting Centroids:	41. 694703125000001 42. 386136363636375 29. 644411111111122	25. 819953124999998 42. 083499999999985 39. 90998333333334
Starting Centroids:	41. 45316969696971 42. 23999197080293 28. 079593333333328	25. 915090909090907 41. 85575182481751 40. 952576666666667
Starting Centroids:	41. 30554117647061 42. 14504460431656 27. 179618518518513	26. 143685294117645 41. 828615107913656 41. 29446296296297
Starting Centroids:	40. 96484285714288 42. 14504460431656 27. 094946153846145	26. 224574285714283 41. 828615107913656 41. 76829615384615
Starting Centroids:	40. 939561111111113 42. 16019202898551 27. 094946153846145	26. 442874999999997 41. 88473985507245 41. 76829615384615
Starting Centroids:	40. 939561111111113 42. 16019202898551 27. 094946153846145	26. 442874999999997 41. 88473985507245 41. 76829615384615
Loop 8 times for finding the final centroids.		
Final Centroids are:	40. 939561111111113 42. 16019202898551 27. 094946153846145	26. 442874999999997 41. 88473985507245 41. 76829615384615
IV is: 1034.649463088546		
EV is: 1619.7627287962214		
IV / EV is: 0.6387660641243913		
Repeating the 5 time.=====		
Randomly generated centroids are:	33. 65606702823663 45. 735571697557845 30. 542768636164595 54. 50488831005063 52. 99030901302213 24. 007289139787872	
Starting Centroids:	39. 61607687499999 24. 415799999999997 43. 33788333333335	41. 382615624999985 48. 9895 27. 801022222222222
Starting Centroids:	41. 58340896551723 24. 525688888888889 41. 225475675675696	41. 842477931034466 42. 364566666666666 26. 710589189189186
Starting Centroids:	41. 804933333333324 25. 133235 40. 939561111111113	41. 800761111111109 42. 33801 26. 442874999999997
Starting Centroids:	41. 92895845070422 25. 848318181818176 40. 939561111111113	41. 85647816901407 41. 929540909090909 26. 442874999999997
Starting Centroids:	42. 04601 26. 505570833333334 40. 939561111111113	41. 894157142857123 41. 703658333333333 26. 442874999999997
Starting Centroids:	42. 10431726618705 26. 802999999999997 40. 939561111111113	41. 87686474820143 41. 807423999999999 26. 442874999999997
Starting Centroids:	42. 16019202898551 27. 094946153846145 40. 939561111111113	41. 88473985507245 41. 76829615384615 26. 442874999999997
Starting Centroids:	27. 094946153846145 40. 939561111111113 40. 939561111111113	41. 76829615384615 26. 442874999999997 26. 442874999999997
Loop 8 times for finding the final centroids.		
Final Centroids are:	42. 16019202898551 27. 094946153846145 40. 939561111111113	41. 88473985507245 41. 76829615384615 26. 442874999999997
IV is: 1034.6494630885463		
EV is: 1619.7627287962114		
IV / EV is: 0.6387660641243953		

This is the way of visualizing the centroids at the beginning.*****		
Repeating the 1 time.=====		
Manually picked centroids are:	42.5 26.5 44.0 40.5 26.5	42.5
Starting Centroids:	42. 131059854014595 26. 802999999999997 40. 904450000000002	41. 983999999999995 41. 807423999999999 26. 868939473684208
Starting Centroids:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
Starting Centroids:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
Loop 3 times for finding the final centroids.		
Final Centroids are:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
IV is: 1034.568716163391		
EV is: 1628.0141051995033		
IV / EV is: 0.6354789635170949		
Repeating the 2 time.=====		
Manually picked centroids are:	42.5 26.5 44.0 40.5 26.5	42.5
Starting Centroids:	42. 131059854014595 26. 802999999999997 40. 904450000000002	41. 983999999999995 41. 807423999999999 26. 868939473684208
Starting Centroids:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
Starting Centroids:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
Loop 3 times for finding the final centroids.		
Final Centroids are:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
IV is: 1034.568716163391		
EV is: 1628.0141051995033		
IV / EV is: 0.6354789635170949		
Repeating the 4 time.=====		
Manually picked centroids are:	42.5 26.5 44.0 40.5 26.5	42.5
Starting Centroids:	42. 131059854014595 26. 802999999999997 40. 904450000000002	41. 983999999999995 41. 807423999999999 26. 868939473684208
Starting Centroids:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
Starting Centroids:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
Loop 3 times for finding the final centroids.		
Final Centroids are:	42. 16268248175183 27. 094946153846145 40. 96332972972975	41. 9403408759124 41. 76829615384615 26. 654348648648643
IV is: 1034.568716163391		
EV is: 1628.0141051995033		
IV / EV is: 0.6354789635170949		