3 - Rapport

# Lecture des données

x\_matrix <- read.csv("CSV/generated/dep-e-t-format.csv", header = T, sep = ";", row.names = 1)

# Informations basiques

## Résumé

summary(x\_matrix)

## X971.Guadeloupe X972.Martinique X973.Guyane X974.LaReunion   
## Min. : 77818 Min. : 91893 Min. :26015 Min. :135711   
## 1st Qu.: 94728 1st Qu.:105527 1st Qu.:34388 1st Qu.:162748   
## Median :106017 Median :118708 Median :40730 Median :202678   
## Mean :103303 Mean :114026 Mean :40507 Mean :200193   
## 3rd Qu.:115822 3rd Qu.:122806 3rd Qu.:47730 3rd Qu.:230505   
## Max. :119304 Max. :127426 Max. :54247 Max. :257398   
## X01.Ain X03.Allier X07.Ardeche X15.Cantal   
## Min. :148717 Min. :100766 Min. :72759 Min. :37070   
## 1st Qu.:165350 1st Qu.:104657 1st Qu.:78921 1st Qu.:41006   
## Median :188197 Median :107950 Median :88670 Median :45588   
## Mean :179596 Mean :108402 Mean :84817 Mean :43640   
## 3rd Qu.:191478 3rd Qu.:113447 3rd Qu.:89307 3rd Qu.:46045   
## Max. :197981 Max. :115105 Max. :90616 Max. :46959   
## X26.Drome X38.Isere X42.Loire X43.Haute.Loire  
## Min. :148102 Min. :364102 Min. :236438 Min. :54507   
## 1st Qu.:155665 1st Qu.:386367 1st Qu.:244167 1st Qu.:60750   
## Median :176023 Median :437246 Median :255470 Median :65897   
## Mean :171281 Mean :422330 Mean :253224 Mean :63686   
## 3rd Qu.:183470 3rd Qu.:450466 3rd Qu.:260027 3rd Qu.:66570   
## Max. :189813 Max. :464041 Max. :266229 Max. :67415   
## X63.Puy.de.Dome X69.Rhone X73.Savoie X74.Haute.Savoie  
## Min. :207770 Min. :664440 Min. :134598 Min. :205043   
## 1st Qu.:216188 1st Qu.:689423 1st Qu.:140907 1st Qu.:221806   
## Median :238420 Median :770099 Median :164452 Median :254669   
## Mean :230899 Mean :767969 Mean :159022 Mean :244445   
## 3rd Qu.:240840 3rd Qu.:821607 3rd Qu.:172571 3rd Qu.:260877   
## Max. :245554 Max. :900150 Max. :184107 Max. :278286   
## X21.Cote.d.Or X25.Doubs X39.Jura X58.Nievre   
## Min. :181670 Min. :173922 Min. :80627 Min. :65906   
## 1st Qu.:190768 1st Qu.:182616 1st Qu.:83993 1st Qu.:66864   
## Median :209745 Median :194937 Median :84862 Median :69239   
## Mean :203217 Mean :191841 Mean :85369 Mean :69905   
## 3rd Qu.:211924 3rd Qu.:201294 3rd Qu.:87814 3rd Qu.:72940   
## Max. :217057 Max. :203063 Max. :89759 Max. :75460   
## X70.Haute.Saone X71.Saone.et.Loire X89.Yonne X90.TerritoiredeBelfort  
## Min. :61314 Min. :168863 Min. : 97673 Min. :45779   
## 1st Qu.:65263 1st Qu.:175546 1st Qu.:105375 1st Qu.:48989   
## Median :67048 Median :184001 Median :108760 Median :50512   
## Mean :67816 Mean :182659 Mean :108877 Mean :50407   
## 3rd Qu.:71177 3rd Qu.:188316 3rd Qu.:114426 3rd Qu.:52401   
## Max. :73121 Max. :192896 Max. :116165 Max. :53754   
## X22.Cotes.d.Armor X29.Finistere X35.Ille.et.Vilaine X56.Morbihan   
## Min. :136788 Min. :246384 Min. :278420 Min. :178600   
## 1st Qu.:155624 1st Qu.:276302 1st Qu.:313223 1st Qu.:198071   
## Median :181564 Median :313680 Median :378436 Median :229683   
## Mean :172858 Mean :297955 Mean :365673 Mean :220506   
## 3rd Qu.:187150 3rd Qu.:317619 3rd Qu.:407573 3rd Qu.:239954   
## Max. :193868 Max. :323323 Max. :446111 Max. :248575   
## X18.Cher X28.Eure.et.Loir X36.Indre X37.Indre.et.Loire  
## Min. : 98591 Min. :123980 Min. :71855 Min. :186853   
## 1st Qu.:100477 1st Qu.:130056 1st Qu.:73684 1st Qu.:193961   
## Median :102233 Median :133999 Median :75730 Median :215168   
## Mean :103247 Mean :133398 Mean :76211 Mean :210253   
## 3rd Qu.:107157 3rd Qu.:137247 3rd Qu.:79491 3rd Qu.:221922   
## Max. :108465 Max. :141080 Max. :80673 Max. :226452   
## X41.Loir.et.Cher X45.Loiret X2A.Corse.du.Sud X2B.Haute.Corse  
## Min. : 97745 Min. :214192 Min. :33543 Min. :32781   
## 1st Qu.:102691 1st Qu.:230383 1st Qu.:36496 1st Qu.:35128   
## Median :113458 Median :255372 Median :45194 Median :42874   
## Mean :109419 Mean :246378 Mean :44754 Mean :42477   
## 3rd Qu.:114054 3rd Qu.:258598 3rd Qu.:52057 3rd Qu.:49194   
## Max. :116575 Max. :264278 Max. :57507 Max. :51267   
## X08.Ardennes X10.Aube X51.Marne X52.Haute.Marne  
## Min. :81543 Min. : 98791 Min. :204213 Min. :63423   
## 1st Qu.:86052 1st Qu.:100978 1st Qu.:209954 1st Qu.:65931   
## Median :88031 Median :102974 Median :218384 Median :67758   
## Mean :87957 Mean :103141 Mean :217067 Mean :67375   
## 3rd Qu.:90516 3rd Qu.:105679 3rd Qu.:223824 3rd Qu.:68954   
## Max. :94220 Max. :107725 Max. :227173 Max. :71329   
## X54.Meurthe.et.Moselle X55.Meuse X57.Moselle X67.Bas.Rhin   
## Min. :235608 Min. :54663 Min. :318601 Min. :376605   
## 1st Qu.:240399 1st Qu.:56676 1st Qu.:328495 1st Qu.:400222   
## Median :244158 Median :58008 Median :337690 Median :441470   
## Mean :245821 Mean :58616 Mean :340062 Mean :427337   
## 3rd Qu.:252606 3rd Qu.:60745 3rd Qu.:353166 3rd Qu.:445738   
## Max. :257955 Max. :62636 Max. :359025 Max. :459466   
## X68.Haut.Rhin X88.Vosges X02.Aisne X59.Nord   
## Min. :236785 Min. :118634 Min. :151100 Min. :826528   
## 1st Qu.:249839 1st Qu.:126042 1st Qu.:158496 1st Qu.:859706   
## Median :262050 Median :129220 Median :162100 Median :952856   
## Mean :259553 Mean :128961 Mean :161630 Mean :921311   
## 3rd Qu.:268890 3rd Qu.:134551 3rd Qu.:165618 3rd Qu.:960010   
## Max. :275591 Max. :138049 Max. :168847 Max. :976750   
## X60.Oise X62.Pas.de.Calais X80.Somme X75.Paris   
## Min. :228665 Min. :370825 Min. :173489 Min. :1709022   
## 1st Qu.:238588 1st Qu.:397022 1st Qu.:185177 1st Qu.:1752200   
## Median :250904 Median :446226 Median :196448 Median :1763315   
## Mean :248980 Mean :430438 Mean :193187 Mean :1774716   
## 3rd Qu.:258664 3rd Qu.:453826 3rd Qu.:201453 3rd Qu.:1797577   
## Max. :264359 Max. :462653 Max. :205547 Max. :1915964   
## X77.Seine.et.Marne X78.Yvelines X91.Essonne X92.Hauts.de.Seine  
## Min. :304048 Min. :474370 Min. :357514 Min. : 822060   
## 1st Qu.:355571 1st Qu.:513723 1st Qu.:381656 1st Qu.: 857586   
## Median :416618 Median :539691 Median :423246 Median : 944795   
## Mean :403247 Mean :531130 Mean :415046 Mean : 940173   
## 3rd Qu.:440367 3rd Qu.:543617 3rd Qu.:440038 3rd Qu.:1011022   
## Max. :467580 Max. :563258 Max. :455955 Max. :1072351   
## X93.Seine.Saint.Denis X94.Val.de.Marne X95.Val.d.Oise X14.Calvados   
## Min. :447559 Min. :466441 Min. :296641 Min. :212371   
## 1st Qu.:471222 1st Qu.:476166 1st Qu.:328908 1st Qu.:221400   
## Median :513736 Median :501581 Median :373086 Median :249420   
## Mean :520086 Mean :501842 Mean :362711 Mean :240176   
## 3rd Qu.:554065 3rd Qu.:523109 3rd Qu.:386918 3rd Qu.:252007   
## Max. :624895 Max. :541158 Max. :400575 Max. :258509   
## X27.Eure X50.Manche X61.Orne X76.Seine.Maritime  
## Min. :158474 Min. :143367 Min. : 90409 Min. :431981   
## 1st Qu.:164698 1st Qu.:148940 1st Qu.: 95333 1st Qu.:442724   
## Median :174735 Median :164166 Median : 97960 Median :468180   
## Mean :173554 Mean :159115 Mean : 97757 Mean :463545   
## 3rd Qu.:182938 3rd Qu.:165882 3rd Qu.:100210 3rd Qu.:477859   
## Max. :185558 Max. :168534 Max. :105648 Max. :494726   
## X16.Charente X17.Charente.Maritime X19.Correze X23.Creuse   
## Min. :104890 Min. :142590 Min. :71197 Min. :31910   
## 1st Qu.:112747 1st Qu.:158954 1st Qu.:75892 1st Qu.:32892   
## Median :120470 Median :188148 Median :82464 Median :33537   
## Mean :117532 Mean :178747 Mean :80209 Mean :33981   
## 3rd Qu.:121706 3rd Qu.:195250 3rd Qu.:83416 3rd Qu.:35462   
## Max. :123442 Max. :201112 Max. :86804 Max. :36510   
## X24.Dordogne X33.Gironde X40.Landes X47.Lot.et.Garonne  
## Min. :105697 Min. :433921 Min. : 97767 Min. : 85571   
## 1st Qu.:115074 1st Qu.:461686 1st Qu.:102498 1st Qu.: 93486   
## Median :120790 Median :533062 Median :115874 Median :104358   
## Mean :118721 Mean :529403 Mean :113769 Mean : 99953   
## 3rd Qu.:123164 3rd Qu.:578354 3rd Qu.:122625 3rd Qu.:105601   
## Max. :126386 Max. :644530 Max. :126295 Max. :108463   
## X64.Pyrenees.Atlantiques X79.Deux.Sevres X86.Vienne X87.Haute.Vienne  
## Min. :182146 Min. :100647 Min. :119266 Min. :118868   
## 1st Qu.:194393 1st Qu.:117184 1st Qu.:134959 1st Qu.:121024   
## Median :220096 Median :133167 Median :154580 Median :126609   
## Mean :214955 Mean :126874 Mean :147049 Mean :127015   
## 3rd Qu.:231147 3rd Qu.:136451 3rd Qu.:157761 3rd Qu.:132057   
## Max. :238421 Max. :139323 Max. :161415 Max. :134948   
## X09.Ariege X11.Aude X12.Aveyron X30.Gard   
## Min. :37735 Min. : 77383 Min. :70233 Min. :165270   
## 1st Qu.:40322 1st Qu.: 85018 1st Qu.:75886 1st Qu.:173519   
## Median :44250 Median :100504 Median :86068 Median :201786   
## Mean :42810 Mean : 95475 Mean :82602 Mean :193290   
## 3rd Qu.:44694 3rd Qu.:104062 3rd Qu.:88065 3rd Qu.:208126   
## Max. :46358 Max. :107580 Max. :89210 Max. :211389   
## X31.Haute.Garonne X32.Gers X34.Herault X46.Lot   
## Min. :359370 Min. :41131 Min. :237890 Min. :39592   
## 1st Qu.:397186 1st Qu.:44857 1st Qu.:264479 1st Qu.:45252   
## Median :488832 Median :53198 Median :328322 Median :51457   
## Mean :481256 Mean :50183 Mean :315596 Mean :49063   
## 3rd Qu.:548341 3rd Qu.:54568 3rd Qu.:355390 3rd Qu.:52272   
## Max. :616402 Max. :55902 Max. :385790 Max. :53665   
## X48.Lozere X65.Hautes.Pyrenees X66.Pyrenees.Orientales X81.Tarn   
## Min. :18161 Min. :67940 Min. : 96128 Min. :102144   
## 1st Qu.:21336 1st Qu.:70496 1st Qu.:105264 1st Qu.:105130   
## Median :24526 Median :74147 Median :126350 Median :112536   
## Mean :23218 Mean :73772 Mean :120433 Mean :110233   
## 3rd Qu.:25026 3rd Qu.:76930 3rd Qu.:132380 3rd Qu.:113742   
## Max. :25749 Max. :79210 Max. :136904 Max. :115900   
## X82.Tarn.et.Garonne X44.Loire.Atlantique X49.Maine.et.Loire X53.Mayenne   
## Min. :54097 Min. :356983 Min. :225932 Min. : 86926   
## 1st Qu.:60210 1st Qu.:398728 1st Qu.:251295 1st Qu.: 98488   
## Median :67896 Median :480928 Median :282537 Median :108804   
## Mean :66510 Mean :471039 Mean :271449 Mean :104314   
## 3rd Qu.:72154 3rd Qu.:527635 3rd Qu.:288817 3rd Qu.:109534   
## Max. :77540 Max. :587936 Max. :296602 Max. :112374   
## X72.Sarthe X85.Vendee X04.Alpes.de.Haute.Provence X05.Hautes.Alpes  
## Min. :171720 Min. :149950 Min. :36234 Min. :36727   
## 1st Qu.:184702 1st Qu.:172672 1st Qu.:39684 1st Qu.:40517   
## Median :199803 Median :211638 Median :46112 Median :47490   
## Mean :195157 Mean :201892 Mean :43853 Mean :44966   
## 3rd Qu.:203979 3rd Qu.:224930 3rd Qu.:47407 3rd Qu.:48813   
## Max. :208891 Max. :240907 Max. :49248 Max. :50213   
## X06.Alpes.Maritimes X13.Bouches.du.Rhone X83.Var X84.Vaucluse   
## Min. :308944 Min. :601009 Min. :224167 Min. :144883   
## 1st Qu.:317436 1st Qu.:618819 1st Qu.:244576 1st Qu.:155156   
## Median :378888 Median :723857 Median :296468 Median :187490   
## Mean :360376 Mean :702984 Mean :282754 Mean :176048   
## 3rd Qu.:389453 3rd Qu.:759619 3rd Qu.:315058 3rd Qu.:191384   
## Max. :397757 Max. :811953 Max. :322339 Max. :195869

## Covariance

cov(x\_matrix)

## X971.Guadeloupe X972.Martinique X973.Guyane  
## X971.Guadeloupe 185185011 147139734 114016167  
## X972.Martinique 147139734 127959409 87280513  
## X973.Guyane 114016167 87280513 74002518  
## X974.LaReunion 488517112 373724329 318443152  
## X01.Ain 210467313 173723424 130753450  
## X03.Allier 35005200 37731769 16683322  
## X07.Ardeche 82245410 69168328 49907697  
## X15.Cantal 42451805 36480671 25122772  
## X26.Drome 187435045 148963687 118257072  
## X38.Isere 469537666 382386387 292415498  
## X42.Loire 92199416 87200411 51353074  
## X43.Haute.Loire 52578056 43864195 31813397  
## X63.Puy.de.Dome 177503237 145859917 110655489  
## X69.Rhone 920498616 704006450 602206488  
## X73.Savoie 217422447 171474290 138383082  
## X74.Haute.Savoie 305293938 245431974 194228998  
## X21.Cote.d.Or 152519136 128221188 91493970  
## X25.Doubs 113899348 103953440 65383714  
## X39.Jura 16225677 17628907 8398976  
## X58.Nievre 2099679 9385301 -2433595  
## X70.Haute.Saone 30509549 31721448 15029448  
## X71.Saone.et.Loire 72775820 68405815 39812044  
## X89.Yonne 52880207 51286816 27953062  
## X90.TerritoiredeBelfort 21506084 21151123 11176654  
## X22.Cotes.d.Armor 250435150 205950243 154014505  
## X29.Finistere 349527263 290896369 212096564  
## X35.Ille.et.Vilaine 702279910 551252869 448162253  
## X56.Morbihan 316263452 256941418 195354823  
## X18.Cher 5302594 12776341 -1161873  
## X28.Eure.et.Loir 44322826 42266550 24726139  
## X36.Indre 19841138 22268989 8511098  
## X37.Indre.et.Loire 185390083 150641447 114728264  
## X41.Loir.et.Cher 85190128 71337929 50765942  
## X45.Loiret 212956917 183167050 126754344  
## X2A.Corse.du.Sud 101975137 77456535 65950622  
## X2B.Haute.Corse 88709565 68074742 56708448  
## X08.Ardennes -14063424 -3490883 -12797927  
## X10.Aube 11133397 14359295 3852330  
## X51.Marne 73253759 69670435 39995835  
## X52.Haute.Marne -12697292 -5541463 -10152264  
## X54.Meurthe.et.Moselle 48806416 54359148 21930807  
## X55.Meuse -5294837 1610591 -6401730  
## X57.Moselle 97408214 102713105 47550207  
## X67.Bas.Rhin 347675078 288844237 214103617  
## X68.Haut.Rhin 114951459 107892498 64106508  
## X88.Vosges -26993774 -7192086 -24478905  
## X02.Aisne -23997515 -6805631 -21678537  
## X59.Nord 695770437 582503171 424949230  
## X60.Oise 122704584 113529976 68463525  
## X62.Pas.de.Calais 397595414 344337440 236536762  
## X80.Somme 121893447 110198476 69293691  
## X75.Paris -100005820 -75781402 -34109650  
## X77.Seine.et.Marne 627740739 498716187 396111727  
## X78.Yvelines 243606298 214015460 142781628  
## X91.Essonne 392127184 310823860 247305706  
## X92.Hauts.de.Seine 1055121340 817051247 680624293  
## X93.Seine.Saint.Denis 642300172 476413725 433267692  
## X94.Val.de.Marne 315019833 241784057 205626294  
## X95.Val.d.Oise 398529720 348320275 228636980  
## X14.Calvados 201843658 170658333 121884923  
## X27.Eure 92950217 88005147 51304246  
## X50.Manche 117022959 97476224 71452300  
## X61.Orne -16287349 -4485734 -14999450  
## X76.Seine.Maritime 209319614 190957055 117236638  
## X16.Charente 74406796 63703344 44491508  
## X17.Charente.Maritime 274752905 225462023 168441782  
## X19.Correze 58984250 51912754 34674763  
## X23.Creuse 7326040 9154028 2910360  
## X24.Dordogne 72366056 64863834 41219000  
## X33.Gironde 848142667 647613973 552838081  
## X40.Landes 134520920 106828715 84466097  
## X47.Lot.et.Garonne 100218176 83759898 61600686  
## X64.Pyrenees.Atlantiques 254256541 203761162 159541953  
## X79.Deux.Sevres 169087178 139572795 103005261  
## X86.Vienne 185286809 154715845 112261460  
## X87.Haute.Vienne 49485477 49074055 25935809  
## X09.Ariege 35401207 31289936 20963904  
## X11.Aude 140073809 115076963 86535441  
## X12.Aveyron 87292949 71898118 53309591  
## X30.Gard 230576868 189310119 142063124  
## X31.Haute.Garonne 1072581286 822436509 694972896  
## X32.Gers 71276581 58671563 44109447  
## X34.Herault 640565469 506175917 406176978  
## X46.Lot 57723210 48263760 35339543  
## X48.Lozere 32416271 26950941 19753967  
## X65.Hautes.Pyrenees 39343527 37291474 21502465  
## X66.Pyrenees.Orientales 190625794 155220750 118474169  
## X81.Tarn 57541814 49853249 34698728  
## X82.Tarn.et.Garonne 97142570 76258671 62041674  
## X44.Loire.Atlantique 947043994 734785739 609149690  
## X49.Maine.et.Loire 305661873 250774670 187396707  
## X53.Mayenne 102758364 86847805 62131983  
## X72.Sarthe 143312350 128046781 82699358  
## X85.Vendee 390403743 313436056 245043352  
## X04.Alpes.de.Haute.Provence 58630975 47847585 36385024  
## X05.Hautes.Alpes 62033001 52066531 37356168  
## X06.Alpes.Maritimes 448131138 371921440 274296223  
## X13.Bouches.du.Rhone 950627206 751448006 606591206  
## X83.Var 472710592 382363488 293325934  
## X84.Vaucluse 255590572 211975283 156721310  
## X974.LaReunion X01.Ain X03.Allier X07.Ardeche  
## X971.Guadeloupe 488517112 210467313 35005200 82245410.2  
## X972.Martinique 373724329 173723424 37731769 69168328.4  
## X973.Guyane 318443152 130753450 16683322 49907697.1  
## X974.LaReunion 1423080287 560359953 65381569 212535691.7  
## X01.Ain 560359953 262122265 52021596 102575416.1  
## X03.Allier 65381569 52021596 22572260 22491528.9  
## X07.Ardeche 212535692 102575416 22491529 40777669.7  
## X15.Cantal 106718805 52021527 12070758 20836598.9  
## X26.Drome 517709230 222351211 36262362 86088805.4  
## X38.Isere 1273587453 563508095 102017414 219815724.8  
## X42.Loire 215836025 125465471 39276024 51375748.2  
## X43.Haute.Loire 134185343 65001046 14145936 25789372.9  
## X63.Puy.de.Dome 479669202 220286360 42852639 86242460.3  
## X69.Rhone 2672364911 1068389922 127269374 404538577.4  
## X73.Savoie 619922598 254375209 36766627 97538040.7  
## X74.Haute.Savoie 843252729 374761960 64248343 144905627.5  
## X21.Cote.d.Or 398300125 183947933 39167614 73017905.1  
## X25.Doubs 275993267 152472136 43250004 61881924.2  
## X39.Jura 31818915 28189472 11588906 11846303.6  
## X58.Nievre -17527321 12843010 13034775 6656741.3  
## X70.Haute.Saone 63192902 43171714 16850722 18413596.2  
## X71.Saone.et.Loire 170505914 97754403 31187984 40301819.8  
## X89.Yonne 114687861 73311160 25641885 30619863.5  
## X90.TerritoiredeBelfort 44700387 29628561 10468242 12393754.6  
## X22.Cotes.d.Armor 660200349 302969088 58919791 118998520.3  
## X29.Finistere 904404373 424998644 88096897 167997117.6  
## X35.Ille.et.Vilaine 1957591842 824488091 121635390 317201428.0  
## X56.Morbihan 848075358 374782809 67441118 146536164.8  
## X18.Cher -6977244 15314645 13894477 7791486.7  
## X28.Eure.et.Loir 100164473 64370949 21483160 26560335.7  
## X36.Indre 33820090 29152568 13765100 12892477.2  
## X37.Indre.et.Loire 503914070 220653035 39698409 86168393.9  
## X41.Loir.et.Cher 218479235 102972662 22639009 41067102.1  
## X45.Loiret 543590041 268940061 63506226 107349060.3  
## X2A.Corse.du.Sud 292713418 114426049 12835799 43469726.3  
## X2B.Haute.Corse 250608344 99620378 12539044 38197793.4  
## X08.Ardennes -61286922 -6543664 10205350 -741393.6  
## X10.Aube 15116748 19764798 11398890 8956556.8  
## X51.Marne 169894901 100952864 32722640 41519638.3  
## X52.Haute.Marne -47771022 -8018657 5479352 -2139273.2  
## X54.Meurthe.et.Moselle 88806791 73187748 33656730 31935391.2  
## X55.Meuse -32587129 1183818 8536912 1751559.8  
## X57.Moselle 196381399 146851484 60779856 62641856.2  
## X67.Bas.Rhin 918307845 431547536 87563091 169504040.0  
## X68.Haut.Rhin 261328055 159739915 50798626 65744699.4  
## X88.Vosges -112359731 -14877089 17050448 -2686399.1  
## X02.Aisne -99458151 -14726310 14635760 -3027444.2  
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## X60.Oise 289257783 162609591 49286904 66701343.3  
## X62.Pas.de.Calais 1021400856 504058669 120074006 201576512.2  
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## X75.Paris -51502331 -59608156 -28905666 -31788953.3  
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## X78.Yvelines 600281857 318780912 82944253 128277957.6  
## X91.Essonne 1087478612 467862342 77238432 180732791.2  
## X92.Hauts.de.Seine 3058979486 1222372265 158374902 464520119.1  
## X93.Seine.Saint.Denis 1967324919 736075756 61096884 273842977.3  
## X94.Val.de.Marne 933759737 358208690 39000719 134908296.2  
## X95.Val.d.Oise 983937807 493721490 125296837 198973392.6  
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## X16.Charente 188225784 93872948 21780256 37408169.6  
## X17.Charente.Maritime 729602565 328442897 62635545 128879835.8  
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## X23.Creuse 10612805 12957444 6865802 5760950.5  
## X24.Dordogne 170577086 91298070 25040035 37246158.3  
## X33.Gironde 2429416815 982716100 120459141 373342322.8  
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## X64.Pyrenees.Atlantiques 700285033 299571808 49216087 116170487.2  
## X79.Deux.Sevres 434866535 205325112 42263592 81073555.1  
## X86.Vienne 479939828 226130006 48098200 89478492.2  
## X87.Haute.Vienne 111723580 68317647 24132099 28586070.2  
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## X12.Aveyron 232131434 104319699 20071249 41075803.0  
## X30.Gard 628692568 272615016 49154352 106817488.6  
## X31.Haute.Garonne 3071418188 1227813189 148732973 467013510.8  
## X32.Gers 192108962 85666911 15927733 33544628.8  
## X34.Herault 1793437914 741522520 108109799 285711851.3  
## X46.Lot 151218860 71723163 14972942 28327459.4  
## X48.Lozere 84334516 39062504 7813602 15426879.0  
## X65.Hautes.Pyrenees 93157599 50751337 15559441 20953889.7  
## X66.Pyrenees.Orientales 519998304 225438304 39271711 87975720.7  
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## X82.Tarn.et.Garonne 271509962 112971189 16045175 43340982.3  
## X44.Loire.Atlantique 2671134290 1101520571 149285913 421170802.1  
## X49.Maine.et.Loire 800755259 369664161 72637346 145328759.0  
## X53.Mayenne 260102826 129629920 29404334 51463763.5  
## X72.Sarthe 348268647 187898224 51445594 76144571.9  
## X85.Vendee 1068012786 463561555 77363832 179850007.7  
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## X05.Hautes.Alpes 163594619 73195721 14661582 28977821.5  
## X06.Alpes.Maritimes 1226711555 533896317 100382733 209383902.4  
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## X84.Vaucluse 686220254 306852966 58966630 120601063.3  
## X15.Cantal X26.Drome X38.Isere X42.Loire  
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## X972.Martinique 36480670.62 148963687 382386387 87200411  
## X973.Guyane 25122771.71 118257072 292415498 51353074  
## X974.LaReunion 106718805.00 517709230 1273587453 215836025  
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## X03.Allier 12070757.74 36262362 102017414 39276024  
## X07.Ardeche 20836598.90 86088805 219815725 51375748  
## X15.Cantal 10917817.18 43494782 111980224 26640299  
## X26.Drome 43494782.25 199178954 495458354 98863578  
## X38.Isere 111980223.71 495458354 1245915973 261061435  
## X42.Loire 26640299.43 98863578 261061435 80052814  
## X43.Haute.Loire 13270633.26 54083778 138335990 31990246  
## X63.Puy.de.Dome 43717986.76 189355325 478603899 104498375  
## X69.Rhone 200519753.16 990166571 2426760219 427691185  
## X73.Savoie 49320941.74 233108594 576732970 108424622  
## X74.Haute.Savoie 72726218.87 326756458 818299428 168950078  
## X21.Cote.d.Or 37872229.13 158824767 404192474 91617644  
## X25.Doubs 31943721.21 121000685 316338855 88641617  
## X39.Jura 6048533.31 18215852 50946895 20379650  
## X58.Nievre 3774838.47 2130203 14557148 17940483  
## X70.Haute.Saone 9937753.67 31575145 86927855 30318247  
## X71.Saone.et.Loire 21117039.07 77363295 204791445 61934178  
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## X90.TerritoiredeBelfort 6549468.90 21858198 58968900 19677413  
## X22.Cotes.d.Armor 61000249.29 260351119 659258427 143591237  
## X29.Finistere 86633314.60 361817351 919888132 207145163  
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## X56.Morbihan 75117343.48 329507006 828285254 172393319  
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## X28.Eure.et.Loir 13587435.78 47936488 127869977 41521869  
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## X37.Indre.et.Loire 43987243.48 195944240 491063849 102843836  
## X41.Loir.et.Cher 21138214.42 88546589 224852124 52315723  
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## X2B.Haute.Corse 19404054.70 92768408 228371450 39696946  
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## X62.Pas.de.Calais 103941380.86 420495669 1079104605 264762804  
## X80.Somme 33601060.47 125774714 330041153 90105593  
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## X91.Essonne 90955358.58 416307914 1037829178 210615944  
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## X93.Seine.Saint.Denis 133376560.05 706134800 1708149662 267708785  
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## X95.Val.d.Oise 104488347.11 412780173 1064145253 272236228  
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## X17.Charente.Maritime 66258285.68 286519212 723085064 155118060  
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## X23.Creuse 3122257.69 7804607 23357015 11138881  
## X24.Dordogne 19658688.12 72791996 191475420 51269967  
## X33.Gironde 186121179.40 901949135 2216822390 390413454  
## X40.Landes 30936109.77 141150811 351619722 68701127  
## X47.Lot.et.Garonne 24911467.03 104767313 266722596 59589059  
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## X79.Deux.Sevres 41690409.48 174052569 442526619 99233443  
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## X87.Haute.Vienne 15046129.11 53101098 142171140 46411952  
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## X31.Haute.Garonne 234910501.39 1134221927 2789258322 483934600  
## X32.Gers 17227177.43 74792178 188875421 39884901  
## X34.Herault 145541210.02 673402788 1672437610 312431438  
## X46.Lot 14544208.32 60190424 153559297 34739483  
## X48.Lozere 7981138.59 33302545 84747643 18579100  
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## X82.Tarn.et.Garonne 21953294.33 101838445 252832511 47006589  
## X44.Loire.Atlantique 211846994.28 999925531 2471930913 452150875  
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## X05.Hautes.Alpes 15109822.16 64118469 162830738 35313357  
## X06.Alpes.Maritimes 107658469.10 477039611 1200035916 254499104  
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## X84.Vaucluse 62062478.16 269087386 679347386 145868588  
## X43.Haute.Loire X63.Puy.de.Dome X69.Rhone  
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## X972.Martinique 43864195.3 145859917.3 704006450  
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## X03.Allier 14145936.3 42852638.5 127269374  
## X07.Ardeche 25789372.9 86242460.3 404538577  
## X15.Cantal 13270633.3 43717986.8 200519753  
## X26.Drome 54083777.8 189355325.4 990166571  
## X38.Isere 138335990.3 478603898.5 2426760219  
## X42.Loire 31990246.0 104498375.4 427691185  
## X43.Haute.Loire 16589332.9 54188466.3 252990753  
## X63.Puy.de.Dome 54188466.3 187833257.1 914223284  
## X69.Rhone 252990752.9 914223284.2 5151780138  
## X73.Savoie 60947862.9 218679876.0 1180910015  
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## X39.Jura 7476229.3 22610845.8 64101143  
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## X71.Saone.et.Loire 25186603.4 81993466.8 328447434  
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## X18.Cher 4665366.1 12357849.0 -8372650  
## X28.Eure.et.Loir 16676707.5 52764259.6 198108672  
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## X37.Indre.et.Loire 54197720.6 187844483.4 961544730  
## X41.Loir.et.Cher 25947825.1 86726416.3 417675026  
## X45.Loiret 67865953.0 226021151.7 1037814158  
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## X2B.Haute.Corse 24081322.2 85638073.7 473826297  
## X08.Ardennes -678201.0 -6798164.5 -109553334  
## X10.Aube 5292861.9 16721985.6 37544901  
## X51.Marne 26174143.6 84017750.6 331709984  
## X52.Haute.Marne -1462645.2 -7783302.4 -85145728  
## X54.Meurthe.et.Moselle 19996850.9 60605361.0 175329233  
## X55.Meuse 1174287.8 -153447.4 -61091363  
## X57.Moselle 39133318.6 121273298.8 390559422  
## X67.Bas.Rhin 107444741.7 363106301.8 1760678416  
## X68.Haut.Rhin 41573529.1 132168368.2 513413636  
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## X60.Oise 42150350.4 135872776.3 552978681  
## X62.Pas.de.Calais 127083353.2 424895983.4 1946075943  
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## X75.Paris -34951873.0 -28601740.4 256417390  
## X77.Seine.et.Marne 184811846.0 630915623.9 3258101373  
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## X91.Essonne 114416009.7 395399765.5 2078638345  
## X92.Hauts.de.Seine 290329672.2 1048385960.3 5876319027  
## X93.Seine.Saint.Denis 169722766.7 637846676.9 3788803094  
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## X95.Val.d.Oise 125975073.3 415772257.1 1873398376  
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## X76.Seine.Maritime 67615663.2 223946395.2 980321782  
## X16.Charente 23860178.1 78401716.4 358046530  
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## X23.Creuse 3638725.8 10497906.1 20758578  
## X24.Dordogne 23892767.7 75477522.8 320953501  
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## X46.Lot 18056345.6 60189775.4 284952914  
## X48.Lozere 9836968.4 32780638.3 158855031  
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## X66.Pyrenees.Orientales 55471792.6 191978418.5 982437806  
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## X72.Sarthe 48182061.8 157046640.2 667074216  
## X85.Vendee 113916475.5 392804422.9 2029672898  
## X04.Alpes.de.Haute.Provence 17181868.1 59191594.8 299500787  
## X05.Hautes.Alpes 18244098.5 62433790.4 307090956  
## X06.Alpes.Maritimes 130455600.5 459104189.4 2333110445  
## X13.Bouches.du.Rhone 266951239.2 952603240.0 5142884398  
## X83.Var 134643641.8 469277845.1 2439577094  
## X84.Vaucluse 75669836.0 261767535.9 1303075015  
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## X01.Ain 254375209 374761960 183947933 152472136  
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## X63.Puy.de.Dome 218679876 317537739 155872668 126908811  
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## X70.Haute.Saone 33916844 55013446 32871668 34268159  
## X71.Saone.et.Loire 85571540 131115640 72776571 69115789  
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## X2B.Haute.Corse 110405224 149159457 72302124 49952450  
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## X52.Haute.Marne -17493039 -17154055 -5706256 3343791  
## X54.Meurthe.et.Moselle 52456524 89316579 57412892 63952189  
## X55.Meuse -10296101 -5676556 1375975 9925061  
## X57.Moselle 109949140 184965266 110595524 121053388  
## X67.Bas.Rhin 419781749 615826134 306361735 254543643  
## X68.Haut.Rhin 130259535 212374187 114757157 115124453  
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## X75.Paris 21202648 -19872025 -54116329 -30740713  
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## X78.Yvelines 279566190 434512068 228895998 207652481  
## X91.Essonne 486562844 683993625 334907889 256416159  
## X92.Hauts.de.Seine 1363082014 1838770552 879338083 623127833  
## X93.Seine.Saint.Denis 861002994 1140715414 516151082 338736021  
## X94.Val.de.Marne 410901505 544821010 258533920 174922805  
## X95.Val.d.Oise 470307728 683911638 367937245 317168527  
## X14.Calvados 248178440 353300192 181550540 148407544  
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## X61.Orne -25465104 -22750900 -4161040 10421787  
## X76.Seine.Maritime 251520550 361133750 202873435 177477842  
## X16.Charente 87091824 131173399 66799518 57941993  
## X17.Charente.Maritime 332330652 472822322 237250354 187568561  
## X19.Correze 70264601 102778676 54051303 46261526  
## X23.Creuse 7336476 14912236 9619388 12191427  
## X24.Dordogne 79958263 123645881 66715777 60115976  
## X33.Gironde 1069049466 1476109522 690971228 492325293  
## X40.Landes 165903479 229931094 113332195 84000952  
## X47.Lot.et.Garonne 120120350 176159646 87656043 72157591  
## X64.Pyrenees.Atlantiques 313996620 438327686 215659527 162934958  
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## X86.Vienne 218929735 320215194 163209930 134346848  
## X87.Haute.Vienne 58427365 89806566 52071388 51615074  
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## X31.Haute.Garonne 1352340630 1845947654 872457609 611268195  
## X32.Gers 87154154 124002037 61570880 48437083  
## X34.Herault 798790526 1098994321 533876129 389157576  
## X46.Lot 68579087 101646773 50782721 42388933  
## X48.Lozere 38167444 55623160 28043222 22722080  
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## X66.Pyrenees.Orientales 234688588 328299783 163236912 125098241  
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## X82.Tarn.et.Garonne 120019608 167392082 80070928 58645977  
## X44.Loire.Atlantique 1181038363 1639321377 779827802 567140607  
## X49.Maine.et.Loire 362851206 528422897 263878308 213724275  
## X53.Mayenne 118938775 181187627 91255293 79214567  
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## X85.Vendee 478870797 676510308 330987411 253897157  
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## X05.Hautes.Alpes 74824413 104948799 54170533 42565737  
## X06.Alpes.Maritimes 565697719 777211970 394354734 305312891  
## X13.Bouches.du.Rhone 1208644217 1653371128 798257270 582953378  
## X83.Var 583835123 802961934 401914234 299447830  
## X84.Vaucluse 314147409 443507712 223325900 176796551  
## X39.Jura X58.Nievre X70.Haute.Saone  
## X971.Guadeloupe 16225677 2099679.4 30509549  
## X972.Martinique 17628907 9385301.4 31721448  
## X973.Guyane 8398976 -2433594.9 15029448  
## X974.LaReunion 31818915 -17527321.1 63192902  
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## X03.Allier 11588906 13034774.9 16850722  
## X07.Ardeche 11846304 6656741.3 18413596  
## X15.Cantal 6048533 3774838.5 9937754  
## X26.Drome 18215852 2130202.9 31575145  
## X38.Isere 50946895 14557148.4 86927855  
## X42.Loire 20379650 17940482.8 30318247  
## X43.Haute.Loire 7476229 4235155.6 11575819  
## X63.Puy.de.Dome 22610846 9247658.5 35985182  
## X69.Rhone 64101143 -30699875.1 119191140  
## X73.Savoie 17711258 -2374616.5 33916844  
## X74.Haute.Savoie 35172573 9282294.6 55013446  
## X21.Cote.d.Or 18962415 9406112.4 32871668  
## X25.Doubs 23405383 19184970.5 34268159  
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## X58.Nievre 7546437 10749350.7 9231698  
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## X71.Saone.et.Loire 15704612 14108594.3 24241985  
## X89.Yonne 13587232 13392539.5 19765750  
## X90.TerritoiredeBelfort 5700635 5682428.5 8132559  
## X22.Cotes.d.Armor 30270877 12516460.9 49428536  
## X29.Finistere 45235668 22334478.8 73334196  
## X35.Ille.et.Vilaine 62163455 -1134729.1 108625815  
## X56.Morbihan 33408110 9388959.6 58169425  
## X18.Cher 7169601 10135953.1 10211713  
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## X45.Loiret 33208747 21204831.0 51848056  
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## X2B.Haute.Corse 5444949 -2952439.0 11765509  
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## X52.Haute.Marne 3412686 6275203.9 3360789  
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## X55.Meuse 4955567 7935425.7 5912064  
## X57.Moselle 32114858 34638605.3 45990481  
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## X68.Haut.Rhin 27913833 25544203.9 39075028  
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## X93.Seine.Saint.Denis 29586786 -46868073.3 64589221  
## X94.Val.de.Marne 17452953 -15533073.2 38733932  
## X95.Val.d.Oise 61820200 43104112.1 103177987  
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## X23.Creuse 3742422 4548312.4 5123767  
## X24.Dordogne 12736760 10223244.0 19878083  
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## X40.Landes 11739915 393910.8 21922756  
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## X87.Haute.Vienne 12084179 11794594.4 18722614  
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## X30.Gard 23369966 5813813.1 43243225  
## X31.Haute.Garonne 71874416 -34137375.1 140814364  
## X32.Gers 7942627 2632516.9 13689661  
## X34.Herault 51880341 -4928172.5 98981934  
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## X48.Lozere 4003171 1859459.9 6597373  
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## X66.Pyrenees.Orientales 19115411 4185355.1 34442211  
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## X82.Tarn.et.Garonne 8040350 -738543.2 14563425  
## X44.Loire.Atlantique 75508091 -13718473.3 136033997  
## X49.Maine.et.Loire 37593697 16096105.5 60711617  
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## X06.Alpes.Maritimes 46690709 13450232.0 87791356  
## X13.Bouches.du.Rhone 77057769 -9759565.2 146638510  
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## X84.Vaucluse 28929523 10469937.0 50755450  
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## X971.Guadeloupe 72775820 52880207  
## X972.Martinique 68405815 51286816  
## X973.Guyane 39812044 27953062  
## X974.LaReunion 170505914 114687861  
## X01.Ain 97754403 73311160  
## X03.Allier 31187984 25641885  
## X07.Ardeche 40301820 30619864  
## X15.Cantal 21117039 16150045  
## X26.Drome 77363295 54678784  
## X38.Isere 204791445 147545259  
## X42.Loire 61934178 48102920  
## X43.Haute.Loire 25186603 19462637  
## X63.Puy.de.Dome 81993467 60192745  
## X69.Rhone 328447434 219124952  
## X73.Savoie 85571540 58138960  
## X74.Haute.Savoie 131115640 95018535  
## X21.Cote.d.Or 72776571 54094778  
## X25.Doubs 69115789 54785275  
## X39.Jura 15704612 13587232  
## X58.Nievre 14108594 13392539  
## X70.Haute.Saone 24241985 19765750  
## X71.Saone.et.Loire 49542036 38128198  
## X89.Yonne 38128198 31193310  
## X90.TerritoiredeBelfort 15156464 12758389  
## X22.Cotes.d.Armor 112562018 83846120  
## X29.Finistere 163002665 122677320  
## X35.Ille.et.Vilaine 271218587 191749084  
## X56.Morbihan 135419125 98532580  
## X18.Cher 16620722 14243940  
## X28.Eure.et.Loir 32110437 26210176  
## X36.Indre 18687215 15592135  
## X37.Indre.et.Loire 80877801 57848285  
## X41.Loir.et.Cher 41213020 30981780  
## X45.Loiret 110881621 84680740  
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## X2B.Haute.Corse 31312794 21045003  
## X08.Ardennes 8339669 8760882  
## X10.Aube 15184125 12303159  
## X51.Marne 50578315 40153398  
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## X55.Meuse 7907625 8140696  
## X57.Moselle 86383644 70500420  
## X67.Bas.Rhin 162934837 122806333  
## X68.Haut.Rhin 76599540 62454439  
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## X60.Oise 77694206 61236390  
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## X78.Yvelines 138932461 110513160  
## X91.Essonne 164419011 117788766  
## X92.Hauts.de.Seine 397629557 263438796  
## X93.Seine.Saint.Denis 205252982 124580658  
## X94.Val.de.Marne 109506983 70460765  
## X95.Val.d.Oise 215878434 164903001  
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## X61.Orne 9595685 10509370  
## X76.Seine.Maritime 123417107 93936734  
## X16.Charente 37864726 29314144  
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## X23.Creuse 8891182 7598899  
## X24.Dordogne 40404706 32079682  
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## X47.Lot.et.Garonne 46628044 34984946  
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## X86.Vienne 88103999 66351315  
## X87.Haute.Vienne 36670078 28802342  
## X09.Ariege 18988744 14418299  
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## X30.Gard 99869055 71254111  
## X31.Haute.Garonne 377753922 254611940  
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## X66.Pyrenees.Orientales 80534451 57793133  
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## X82.Tarn.et.Garonne 36733317 25733164  
## X44.Loire.Atlantique 351143868 244205925  
## X49.Maine.et.Loire 137966843 103228689  
## X53.Mayenne 51294754 39930174  
## X72.Sarthe 83872929 65718683  
## X85.Vendee 161199934 116290968  
## X04.Alpes.de.Haute.Provence 24871773 18026429  
## X05.Hautes.Alpes 28088502 20520936  
## X06.Alpes.Maritimes 202071453 142604389  
## X13.Bouches.du.Rhone 367242219 252234314  
## X83.Var 193085322 136415495  
## X84.Vaucluse 114965709 83486090  
## X90.TerritoiredeBelfort X22.Cotes.d.Armor  
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## X974.LaReunion 44700387 660200348.7  
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## X07.Ardeche 12393755 118998520.3  
## X15.Cantal 6549469 61000249.3  
## X26.Drome 21858198 260351118.9  
## X38.Isere 58968900 659258427.3  
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## X28.Eure.et.Loir 10821617 72219108.8  
## X36.Indre 6518336 33522057.2  
## X37.Indre.et.Loire 23104636 259249555.6  
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## X45.Loiret 34571728 311838865.9  
## X2A.Corse.du.Sud 8902531 136087799.1  
## X2B.Haute.Corse 8240857 118707649.6  
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## X10.Aube 5080402 21699597.8  
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## X52.Haute.Marne 1983376 -11520625.5  
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## X57.Moselle 28899315 165272397.0  
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## X47.Lot.et.Garonne 14173702 143580064.4  
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## X30.Gard 28276651 321240612.6  
## X31.Haute.Garonne 101295084 1450426163.6  
## X32.Gers 9067198 100411544.7  
## X34.Herault 68612599 876879535.2  
## X46.Lot 8429838 83407971.4  
## X48.Lozere 4506156 45898923.3  
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## X66.Pyrenees.Orientales 23032197 265545138.6  
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## X06.Alpes.Maritimes 56182320 628476000.7  
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## X84.Vaucluse 33486405 360303035.4  
## X29.Finistere X35.Ille.et.Vilaine X56.Morbihan  
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## X43.Haute.Loire 106801219 200522157 92774486  
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## X69.Rhone 1715619470 3731562111 1610405126  
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## X74.Haute.Savoie 604022888 1218224303 542830339  
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## X25.Doubs 250294976 435132749 210195541  
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## X71.Saone.et.Loire 163002665 271218587 135419125  
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## X56.Morbihan 616225534 1226776971 554552997  
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## X2B.Haute.Corse 163171979 349033279 152637610  
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## X10.Aube 33713748 38073032 24354520  
## X51.Marne 167137348 275821892 137920337  
## X52.Haute.Marne -12880286 -53440891 -17979006  
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## X67.Bas.Rhin 702713453 1359417621 620103383  
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## X77.Seine.et.Marne 1215190946 2468618085 1099875598  
## X78.Yvelines 522089458 925836857 440696720  
## X91.Essonne 757720300 1550897906 690214202  
## X92.Hauts.de.Seine 1972531694 4255371368 1853235287  
## X93.Seine.Saint.Denis 1165701503 2674269791 1127450497  
## X94.Val.de.Marne 576405081 1274524686 549645388  
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## X14.Calvados 406836883 785319885 361679153  
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## X16.Charente 154442677 285048720 133135824  
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## X23.Creuse 21919307 24701564 15434972  
## X24.Dordogne 153130616 265938177 128801916  
## X33.Gironde 1584403710 3407040025 1475555537  
## X40.Landes 256641936 527089168 234791148  
## X47.Lot.et.Garonne 201994636 388705251 177890915  
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## X86.Vienne 372348158 708647252 326968407  
## X87.Haute.Vienne 114144686 183593422 94021695  
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## X11.Aude 272545190 545690435 246609984  
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## X48.Lozere 64539865 124166034 56922838  
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## X66.Pyrenees.Orientales 369999023 744654989 335299436  
## X81.Tarn 120119867 225538670 104875153  
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## X49.Maine.et.Loire 607688820 1178019602 537355067  
## X53.Mayenne 212192169 393952850 182797863  
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## X05.Hautes.Alpes 121682652 236741072 108909676  
## X06.Alpes.Maritimes 877439609 1756480710 798142038  
## X13.Bouches.du.Rhone 1803365431 3797483296 1671401234  
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## X84.Vaucluse 504841355 995039601 452921252  
## X18.Cher X28.Eure.et.Loir X36.Indre  
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## X972.Martinique 12776341.3 42266550 22268989  
## X973.Guyane -1161873.0 24726139 8511098  
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## X07.Ardeche 7791486.7 26560336 12892477  
## X15.Cantal 4486288.5 13587436 7114830  
## X26.Drome 6483345.1 47936488 20020012  
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## X43.Haute.Loire 4665366.1 16676708 8101217  
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## X69.Rhone -8372650.3 198108672 65314741  
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## X25.Doubs 21071589.8 47486350 25736731  
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## X71.Saone.et.Loire 16620722.3 32110437 18687215  
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## X56.Morbihan 15920511.2 84111187 38387047  
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## X10.Aube 8216595.5 10408654 7147005  
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## X52.Haute.Marne 6017363.3 3831630 3596139  
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## X55.Meuse 7500681.1 6687548 5561439  
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## X67.Bas.Rhin 27592438.3 107358279 49843365  
## X68.Haut.Rhin 26528076.2 54421152 30332264  
## X88.Vosges 17689075.4 11696595 11611252  
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## X60.Oise 25046706.3 51738265 29623130  
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## X78.Yvelines 36818509.8 96114009 48906765  
## X91.Essonne 14866964.4 103526891 42850233  
## X92.Hauts.de.Seine 4005706.8 232585436 83724799  
## X93.Seine.Saint.Denis -26821159.6 115634197 26854587  
## X94.Val.de.Marne -5230091.4 61768119 19982594  
## X95.Val.d.Oise 55109909.6 136866963 75508832  
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## X19.Correze 7354928.5 19719974 10554182  
## X23.Creuse 4650023.7 6347633 4259820  
## X24.Dordogne 11074639.1 26958105 14995461  
## X33.Gironde -7304971.6 184099136 62139250  
## X40.Landes 3829059.3 32615845 13804410  
## X47.Lot.et.Garonne 7688702.2 30198293 14358422  
## X64.Pyrenees.Atlantiques 8909273.6 63825435 27425347  
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## X86.Vienne 15644209.7 56815175 27667689  
## X87.Haute.Vienne 14025336.9 24180196 14676357  
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## X12.Aveyron 5656724.0 24272099 11637820  
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## X34.Herault 10282183.5 146597353 60068881  
## X46.Lot 4754386.8 17945570 8575813  
## X48.Lozere 2251018.5 9382799 4532594  
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## X66.Pyrenees.Orientales 8708005.0 49143267 22317811  
## X81.Tarn 6731019.5 19531287 9874927  
## X82.Tarn.et.Garonne 970218.6 22299316 8731064  
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## X49.Maine.et.Loire 20513408.4 89196320 41460883  
## X53.Mayenne 10459415.8 34772229 16899207  
## X72.Sarthe 23747568.9 56341085 30419603  
## X85.Vendee 14550793.7 100469462 43256175  
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## X05.Hautes.Alpes 4499483.9 17001844 8679768  
## X06.Alpes.Maritimes 29468729.9 119902447 58221854  
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## X83.Var 17548564.0 114457321 52263092  
## X84.Vaucluse 17087967.8 71137592 34140943  
## X37.Indre.et.Loire X41.Loir.et.Cher X45.Loiret  
## X971.Guadeloupe 185390083 85190128 212956916.6  
## X972.Martinique 150641447 71337929 183167049.6  
## X973.Guyane 114728264 50765942 126754343.5  
## X974.LaReunion 503914070 218479235 543590041.1  
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## X38.Isere 491063849 224852124 574621316.9  
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## X43.Haute.Loire 54197721 25947825 67865953.0  
## X63.Puy.de.Dome 187844483 86726416 226021151.7  
## X69.Rhone 961544730 417675026 1037814158.4  
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## X37.Indre.et.Loire 194996924 89125208 226023330.4  
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## X2B.Haute.Corse 90754044 39928300 97907529.5  
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## X60.Oise 133399993 68006326 182100773.4  
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## X17.Charente.Maritime 285564839 132131964 338541567.5  
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## X23.Creuse 8995940 5598029 16779314.0  
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## X86.Vienne 192490546 91259732 236061924.1  
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## X55.Meuse -7340035 -5620227.8 8214349.24  
## X57.Moselle 38736930 36916659.5 27194557.75  
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## X68.Haut.Rhin 52757262 47975491.3 15073817.95  
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## X40.Landes 77099192 66745481.9 -11096858.65  
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## X87.Haute.Vienne 22723149 20901269.7 8198110.78  
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## X34.Herault 372646084 320444201.5 -61872083.02  
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## X82.Tarn.et.Garonne 56169738 48239003.5 -9659863.31  
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## X49.Maine.et.Loire 165022100 144110063.7 -11479097.86  
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## X05.Hautes.Alpes 33885733 29687695.6 -2585807.88  
## X06.Alpes.Maritimes 255022340 221234171.3 -23726049.36  
## X13.Bouches.du.Rhone 561051920 481597194.7 -92685133.03  
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## X84.Vaucluse 142139108 123808175.7 -11739725.43  
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## X972.Martinique 14359295 69670435 -5541462.7  
## X973.Guyane 3852330 39995835 -10152264.3  
## X974.LaReunion 15116748 169894901 -47771022.2  
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## X03.Allier 11398890 32722640 5479351.9  
## X07.Ardeche 8956557 41519638 -2139273.2  
## X15.Cantal 4746074 21671416 -988180.2  
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## X38.Isere 37929143 207578661 -26015749.1  
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## X58.Nievre 7214119 15843238 6275203.9  
## X70.Haute.Saone 8393198 25622439 3360788.6  
## X71.Saone.et.Loire 15184125 50578315 3521756.3  
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## X29.Finistere 33713748 167137348 -12880286.2  
## X35.Ille.et.Vilaine 38073032 275821892 -53440890.8  
## X56.Morbihan 24354520 137920337 -17979005.9  
## X18.Cher 8216595 17929029 6017363.3  
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## X36.Indre 7147005 19765067 3596139.2  
## X37.Indre.et.Loire 15133967 82195620 -10613778.9  
## X41.Loir.et.Cher 9378839 42431569 -2562252.4  
## X45.Loiret 26840481 115106331 -2908564.7  
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## X2B.Haute.Corse 3300617 30975174 -8449703.8  
## X08.Ardennes 6860696 9740493 7638948.2  
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## X51.Marne 16124062 53928604 4591274.8  
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## X68.Haut.Rhin 24011164 82213237 7005636.5  
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## X47.Lot.et.Garonne 9553079 47832154 -3813821.4  
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## X86.Vienne 18665889 90080950 -6352826.0  
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## X82.Tarn.et.Garonne 4647481 36991645 -7826636.3  
## X44.Loire.Atlantique 43529954 355877621 -79507883.6  
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## X05.Hautes.Alpes 5638812 28351200 -3026129.6  
## X06.Alpes.Maritimes 40512621 204793818 -24833245.1  
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## X972.Martinique 54359148 1610591.0 102713105  
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## X03.Allier 33656730 8536912.2 60779856  
## X07.Ardeche 31935391 1751559.8 62641856  
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## X38.Isere 144535028 -7604481.4 290347350  
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## X69.Rhone 175329233 -61091363.1 390559422  
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## X74.Haute.Savoie 89316579 -5676555.9 184965266  
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## X25.Doubs 63952189 9925060.9 121053388  
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## X36.Indre 21049536 5561439.3 37258198  
## X37.Indre.et.Loire 57083744 -3428462.3 114452388  
## X41.Loir.et.Cher 33252952 1267442.0 63885288  
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## X2A.Corse.du.Sud 17595346 -7340035.3 38736930  
## X2B.Haute.Corse 17425650 -5620227.8 36916660  
## X08.Ardennes 16182099 8214349.2 27194558  
## X10.Aube 17757774 5035850.6 31761125  
## X51.Marne 49377438 9221929.0 91875850  
## X52.Haute.Marne 8758262 5185590.6 14690063  
## X54.Meurthe.et.Moselle 52483726 13275848.1 92582856  
## X55.Meuse 13275848 6269089.0 22499029  
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## X60.Oise 73320312 12073723.9 136422384  
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## X77.Seine.et.Marne 171461299 -16033709.9 350968844  
## X78.Yvelines 118906518 16522234.3 232548578  
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## X61.Orne 18932481 9781465.3 31686852  
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## X40.Landes 35139732 -4925937.8 71741847  
## X47.Lot.et.Garonne 35474892 745640.0 69724165  
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## X87.Haute.Vienne 36710447 7101520.9 67465251  
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## X13.Bouches.du.Rhone 226266462 -45179970.4 471683699  
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## X84.Vaucluse 85401650 -1981268.8 167348493  
## X67.Bas.Rhin X68.Haut.Rhin X88.Vosges  
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## X972.Martinique 288844237 107892498 -7.192086e+06  
## X973.Guyane 214103617 64106508 -2.447891e+07  
## X974.LaReunion 918307845 261328055 -1.123597e+08  
## X01.Ain 431547536 159739915 -1.487709e+07  
## X03.Allier 87563091 50798626 1.705045e+07  
## X07.Ardeche 169504040 65744699 -2.686399e+06  
## X15.Cantal 86264308 34062999 -5.471096e+05  
## X26.Drome 366873289 121593545 -2.721510e+07  
## X38.Isere 930049647 322781022 -5.315727e+07  
## X42.Loire 210003336 98555743 1.671976e+07  
## X43.Haute.Loire 107444742 41573529 -1.845332e+06  
## X63.Puy.de.Dome 363106302 132168368 -1.476091e+07  
## X69.Rhone 1760678416 513413636 -2.056999e+08  
## X73.Savoie 419781749 130259535 -3.850898e+07  
## X74.Haute.Savoie 615826134 212374187 -3.790041e+07  
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## X25.Doubs 254543643 115124453 1.417696e+07  
## X39.Jura 46839440 27913833 9.692489e+06  
## X58.Nievre 22366217 25544204 1.773466e+07  
## X70.Haute.Saone 72958536 39075028 1.160320e+07  
## X71.Saone.et.Loire 162934837 76599540 1.324984e+07  
## X89.Yonne 122806333 62454439 1.458045e+07  
## X90.TerritoiredeBelfort 50255986 26176880 6.437500e+06  
## X22.Cotes.d.Armor 500935302 181914465 -2.111710e+07  
## X29.Finistere 702713453 263249886 -2.079836e+07  
## X35.Ille.et.Vilaine 1359417621 433797069 -1.206959e+08  
## X56.Morbihan 620103383 214689179 -3.579742e+07  
## X18.Cher 27592438 26528076 1.768908e+07  
## X28.Eure.et.Loir 107358279 54421152 1.169659e+07  
## X36.Indre 49843365 30332264 1.161125e+07  
## X37.Indre.et.Loire 365917550 125898285 -2.094644e+07  
## X41.Loir.et.Cher 171332028 65880508 -3.280837e+06  
## X45.Loiret 446313871 179834703 1.259894e+06  
## X2A.Corse.du.Sud 188747012 52757262 -2.423706e+07  
## X2B.Haute.Corse 164523709 47975491 -1.937221e+07  
## X08.Ardennes -9279047 15073818 2.026384e+07  
## X10.Aube 34327477 24011164 1.141960e+07  
## X51.Marne 169704153 82213237 1.640774e+07  
## X52.Haute.Marne -12494141 7005637 1.305991e+07  
## X54.Meurthe.et.Moselle 125162321 75882914 2.773039e+07  
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## X57.Moselle 248663957 141181078 4.593180e+07  
## X67.Bas.Rhin 716208429 267961750 -2.051548e+07  
## X68.Haut.Rhin 267961750 132207887 2.445102e+07  
## X88.Vosges -20515478 24451021 3.666429e+07  
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## X62.Pas.de.Calais 838227208 339939610 5.485273e+06  
## X80.Somme 261224521 115905627 1.145635e+07  
## X75.Paris -77631969 -34004610 -4.000794e+06  
## X77.Seine.et.Marne 1236385342 413648259 -8.740628e+07  
## X78.Yvelines 532379597 226399355 1.729159e+07  
## X91.Essonne 774201465 258860181 -5.410066e+07  
## X92.Hauts.de.Seine 2020235443 599216673 -2.179148e+08  
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## X94.Val.de.Marne 591034887 161879582 -7.675963e+07  
## X95.Val.d.Oise 827339195 339840197 1.485852e+07  
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## X16.Charente 155622125 62362120 2.946477e+04  
## X17.Charente.Maritime 543737550 193334158 -2.577678e+07  
## X19.Correze 122569877 48994600 8.065144e+05  
## X23.Creuse 21820112 14804102 6.692679e+06  
## X24.Dordogne 151952009 66088969 5.365034e+06  
## X33.Gironde 1617174382 478585557 -1.847521e+08  
## X40.Landes 259016070 83897578 -2.105949e+07  
## X47.Lot.et.Garonne 203444865 75564048 -6.588318e+06  
## X64.Pyrenees.Atlantiques 494978290 163448438 -3.647142e+07  
## X79.Deux.Sevres 339109388 127138944 -1.089451e+07  
## X86.Vienne 374144881 141620456 -9.741040e+06  
## X87.Haute.Vienne 115786413 58120121 1.370056e+07  
## X09.Ariege 74618557 30343619 7.230869e+05  
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## X12.Aveyron 172758173 61628050 -7.752781e+06  
## X30.Gard 451781077 154539964 -2.605249e+07  
## X31.Haute.Garonne 2020388248 587364452 -2.378069e+08  
## X32.Gers 141325884 49536998 -7.388042e+06  
## X34.Herault 1224777777 383321036 -1.127572e+08  
## X46.Lot 118267665 44764399 -2.944303e+06  
## X48.Lozere 64655032 23762077 -2.339090e+06  
## X65.Hautes.Pyrenees 84946032 38466192 5.753363e+06  
## X66.Pyrenees.Orientales 372902137 126301534 -2.374893e+07  
## X81.Tarn 122162424 48666001 -9.710946e+03  
## X82.Tarn.et.Garonne 185792527 57660975 -1.779780e+07  
## X44.Loire.Atlantique 1815692735 558014259 -1.836117e+08  
## X49.Maine.et.Loire 611108497 223556452 -2.438240e+07  
## X53.Mayenne 214261323 85494937 -1.246577e+06  
## X72.Sarthe 312437006 137437815 1.320354e+07  
## X85.Vendee 766020691 257012555 -5.282540e+07  
## X04.Alpes.de.Haute.Provence 114970209 39579648 -6.891198e+06  
## X05.Hautes.Alpes 121471361 43421984 -5.026890e+06  
## X06.Alpes.Maritimes 887203504 308312488 -4.428356e+07  
## X13.Bouches.du.Rhone 1833483573 571505571 -1.703163e+08  
## X83.Var 908477968 298022511 -6.713371e+07  
## X84.Vaucluse 508716450 181462035 -2.304935e+07  
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## X972.Martinique -6805630.73 582503171 113529976  
## X973.Guyane -21678537.22 424949230 68463525  
## X974.LaReunion -99458150.54 1842774729 289257783  
## X01.Ain -14726310.18 866174879 162609591  
## X03.Allier 14635760.03 183478216 49286904  
## X07.Ardeche -3027444.23 341939181 66701343  
## X15.Cantal -722998.25 173769670 34931323  
## X26.Drome -25205344.57 742586436 128388819  
## X38.Isere -48958869.07 1881083843 339179684  
## X42.Loire 13712491.19 435447778 98065560  
## X43.Haute.Loire -1873618.11 214549096 42150350  
## X63.Puy.de.Dome -14213805.96 731999558 135872776  
## X69.Rhone -186155386.51 3552564948 552978681  
## X73.Savoie -35283027.71 851247012 141802108  
## X74.Haute.Savoie -36031883.86 1237227476 218470132  
## X21.Cote.d.Or -7542891.00 622000246 120065374  
## X25.Doubs 10479030.66 519302525 113098219  
## X39.Jura 7776594.20 95406833 25331200  
## X58.Nievre 15003392.51 47811422 22134127  
## X70.Haute.Saone 9701964.06 151076624 38766943  
## X71.Saone.et.Loire 11286720.05 340144870 77694206  
## X89.Yonne 12110488.23 252459225 61236390  
## X90.TerritoiredeBelfort 5242774.54 102683310 24876373  
## X22.Cotes.d.Armor -19950292.58 1005108405 187386311  
## X29.Finistere -20592517.18 1413113981 270029698  
## X35.Ille.et.Vilaine -110573622.89 2724602252 457350236  
## X56.Morbihan -33221757.71 1248489775 225578679  
## X18.Cher 15136554.71 63752631 25046706  
## X28.Eure.et.Loir 9362663.62 221143086 51738265  
## X36.Indre 9860771.59 105048624 29623130  
## X37.Indre.et.Loire -19500177.04 742143115 133399993  
## X41.Loir.et.Cher -3477127.61 349854821 68006326  
## X45.Loiret -817509.63 905621410 182100773  
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## X2B.Haute.Corse -17218860.04 331083129 52891756  
## X08.Ardennes 17328682.42 -11257324 11601380  
## X10.Aube 9621710.90 77227384 22925045  
## X51.Marne 13295652.15 351379111 81210728  
## X52.Haute.Marne 11164123.57 -20701293 4483156  
## X54.Meurthe.et.Moselle 23568539.37 267376875 73320312  
## X55.Meuse 12389037.98 8156927 12073724  
## X57.Moselle 38297188.60 524936955 136422384  
## X67.Bas.Rhin -21440655.54 1436599275 271789026  
## X68.Haut.Rhin 19037895.10 547143729 125620750  
## X88.Vosges 30995175.50 -31497954 18586470  
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## X59.Nord -33824308.25 2934442849 558284121  
## X60.Oise 15594228.66 558284121 126213894  
## X62.Pas.de.Calais 82830.93 1705163904 343852674  
## X80.Somme 9310388.39 533228376 116172935  
## X75.Paris -18197117.74 -21106201 -58502406  
## X77.Seine.et.Marne -80116266.40 2459443485 432291103  
## X78.Yvelines 12053249.65 1062633003 225748113  
## X91.Essonne -48746801.50 1565870891 273677379  
## X92.Hauts.de.Seine -194731860.14 4112716494 657014040  
## X93.Seine.Saint.Denis -165218730.75 2446110054 346102125  
## X94.Val.de.Marne -68007629.27 1195668997 183527447  
## X95.Val.d.Oise 9428552.68 1683930199 350965188  
## X14.Calvados -9908612.28 839564658 160978756  
## X27.Eure 15691505.47 439952086 101682996  
## X50.Manche -7999483.77 477952497 89847710  
## X61.Orne 20540871.09 -14566529 13594474  
## X76.Seine.Maritime 15848559.18 920310201 199941191  
## X16.Charente -621139.40 311907375 62675740  
## X17.Charente.Maritime -24018487.46 1096706642 202409815  
## X19.Correze 387600.03 248563441 50777626  
## X23.Creuse 5685151.74 45989520 13961744  
## X24.Dordogne 4574205.77 306333635 66484544  
## X33.Gironde -167203648.02 3240502024 511222078  
## X40.Landes -18913147.69 522833344 89872898  
## X47.Lot.et.Garonne -6458572.01 408576660 77539946  
## X64.Pyrenees.Atlantiques -33040887.09 997160693 174224247  
## X79.Deux.Sevres -10330291.18 679761256 129856190  
## X86.Vienne -9126163.32 754283585 146043353  
## X87.Haute.Vienne 11326353.20 243355886 58024296  
## X09.Ariege 362490.30 151275556 30993887  
## X11.Aude -15136299.24 551588240 99571729  
## X12.Aveyron -7294303.29 348698766 64682184  
## X30.Gard -24436645.61 916728288 165312204  
## X31.Haute.Garonne -213641043.81 4050741892 639077336  
## X32.Gers -6908120.18 284684814 52010281  
## X34.Herault -101959588.36 2463467916 412923530  
## X46.Lot -2976750.87 236688286 45514708  
## X48.Lozere -2310919.76 128971669 24437988  
## X65.Hautes.Pyrenees 4712782.96 175580884 39731608  
## X66.Pyrenees.Orientales -21945304.61 751390157 134231419  
## X81.Tarn -909293.13 247847188 49149237  
## X82.Tarn.et.Garonne -16032046.91 371641926 61683742  
## X44.Loire.Atlantique -166595121.70 3635198214 593990173  
## X49.Maine.et.Loire -23210531.88 1228215224 229544867  
## X53.Mayenne -1806802.25 428952551 85267886  
## X72.Sarthe 9851718.37 635867569 136414461  
## X85.Vendee -48728832.16 1536219149 270029765  
## X04.Alpes.de.Haute.Provence -6499359.03 231628484 41482733  
## X05.Hautes.Alpes -4640151.84 246033685 46440824  
## X06.Alpes.Maritimes -41699432.95 1814926759 331414344  
## X13.Bouches.du.Rhone -156449264.00 3704806652 615477850  
## X83.Var -61163250.99 1833050251 322351770  
## X84.Vaucluse -22162547.85 1031148588 190384126  
## X62.Pas.de.Calais X80.Somme X75.Paris  
## X971.Guadeloupe 397595414.10 121893447 -100005820.3  
## X972.Martinique 344337440.25 110198476 -75781401.7  
## X973.Guyane 236536762.04 69293691 -34109650.3  
## X974.LaReunion 1021400855.81 290740861 -51502330.6  
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## X03.Allier 120074006.05 44169747 -28905666.2  
## X07.Ardeche 201576512.19 63966569 -31788953.3  
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## X26.Drome 420495669.15 125774714 -9334398.5  
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## X42.Loire 264762804.22 90105593 -6025330.9  
## X43.Haute.Loire 127083353.22 40547131 -34951873.0  
## X63.Puy.de.Dome 424895983.36 131136898 -28601740.4  
## X69.Rhone 1946075943.27 552873236 256417390.3  
## X73.Savoie 478654531.40 139204959 21202648.3  
## X74.Haute.Savoie 706769033.99 213432463 -19872025.2  
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## X25.Doubs 317065303.58 105198292 -30740713.0  
## X39.Jura 62750811.04 22551724 -9463576.2  
## X58.Nievre 40768340.38 18432654 -18953354.4  
## X70.Haute.Saone 98596632.46 34936505 -26901163.8  
## X71.Saone.et.Loire 208775615.28 71255527 -28822221.7  
## X89.Yonne 159510229.02 55878397 -41617887.6  
## X90.TerritoiredeBelfort 64821322.39 22832802 -13571650.3  
## X22.Cotes.d.Armor 584191563.79 182282882 -99771430.2  
## X29.Finistere 828423767.15 261930033 -169745319.7  
## X35.Ille.et.Vilaine 1535022571.63 454040101 -81501831.6  
## X56.Morbihan 718921158.92 220439693 -92310150.6  
## X18.Cher 48866341.92 20602908 -2274728.8  
## X28.Eure.et.Loir 136937222.51 47320084 -13743560.7  
## X36.Indre 70577334.23 26405590 -22230923.7  
## X37.Indre.et.Loire 425369184.14 129251263 -22057943.9  
## X41.Loir.et.Cher 204895943.77 65082071 -24043870.8  
## X45.Loiret 538630802.13 172998397 -74309973.3  
## X2A.Corse.du.Sud 208989218.21 59186480 -5776625.3  
## X2B.Haute.Corse 183820461.75 53260777 -12904350.7  
## X08.Ardennes 5206364.54 7601392 2617230.8  
## X10.Aube 51224949.13 19462295 14722864.7  
## X51.Marne 217997576.74 73789993 -16538106.2  
## X52.Haute.Marne -5159230.32 2087291 6502226.9  
## X54.Meurthe.et.Moselle 176252514.46 64987833 -24386890.6  
## X55.Meuse 15184664.57 9227843 -17163374.7  
## X57.Moselle 338157176.49 120959654 -24641235.8  
## X67.Bas.Rhin 838227207.85 261224521 -77631969.4  
## X68.Haut.Rhin 339939609.72 115905627 -34004609.9  
## X88.Vosges 5485273.03 11456353 -4000794.0  
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## X60.Oise 343852673.50 116172935 -58502405.5  
## X62.Pas.de.Calais 1019648955.29 325081206 -107447004.8  
## X80.Somme 325081206.25 109546989 -74568314.0  
## X75.Paris -107447004.79 -74568314 1781221603.7  
## X77.Seine.et.Marne 1409635371.73 423279050 -206627324.7  
## X78.Yvelines 641821475.56 211002615 -180226935.5  
## X91.Essonne 885042405.00 265184778 -25478712.1  
## X92.Hauts.de.Seine 2262647493.42 648323042 286339935.7  
## X93.Seine.Saint.Denis 1307750041.49 349188316 366458370.4  
## X94.Val.de.Marne 654319333.14 182772708 70380900.7  
## X95.Val.d.Oise 1012610034.93 329479101 -193670783.2  
## X14.Calvados 492194545.83 153386008 -29306634.8  
## X27.Eure 273451058.23 93084190 -33689225.5  
## X50.Manche 278772387.35 86612512 -28591159.0  
## X61.Orne 6134371.61 8939688 -11346563.7  
## X76.Seine.Maritime 559429817.39 183952763 -64279991.0  
## X16.Charente 186093088.94 59904855 -41048903.0  
## X17.Charente.Maritime 635178608.96 196677994 -85574754.6  
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## X23.Creuse 31932645.98 12207451 -9363321.0  
## X24.Dordogne 186902854.75 63166362 -67589697.9  
## X33.Gironde 1789273638.78 513397772 50632625.4  
## X40.Landes 295729814.60 88596316 -21906165.1  
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## X64.Pyrenees.Atlantiques 568107264.88 170933018 -50123189.6  
## X79.Deux.Sevres 397343764.78 126077207 -95811276.9  
## X86.Vienne 442557566.95 140585093 -89084117.4  
## X87.Haute.Vienne 151908921.27 52233017 -128867.5  
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## X12.Aveyron 202918886.23 62872403 -33586045.5  
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## X66.Pyrenees.Orientales 432818258.18 131181515 -46143133.3  
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## X82.Tarn.et.Garonne 208933236.64 61763956 -21148837.5  
## X44.Loire.Atlantique 2030200624.46 593133739 -59306509.0  
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## X53.Mayenne 253904996.07 81839827 -55654533.3  
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## X85.Vendee 877993520.39 265212277 -86865372.8  
## X04.Alpes.de.Haute.Provence 133702451.41 40844659 -16988553.2  
## X05.Hautes.Alpes 144006554.97 45019622 -25426416.7  
## X06.Alpes.Maritimes 1048622954.88 318291910 10682061.6  
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## X77.Seine.et.Marne X78.Yvelines X91.Essonne  
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## X01.Ain 746779393 318780912 467862342  
## X03.Allier 121676447 82944253 77238432  
## X07.Ardeche 288890958 128277958 180732791  
## X15.Cantal 146793941 65988922 90955359  
## X26.Drome 656967481 253851194 416307914  
## X38.Isere 1642789048 660966868 1037829178  
## X42.Loire 324911770 176981992 210615944  
## X43.Haute.Loire 184811846 81960426 114416010  
## X63.Puy.de.Dome 630915624 262855537 395399765  
## X69.Rhone 3258101373 1138310479 2078638345  
## X73.Savoie 766049946 279566190 486562844  
## X74.Haute.Savoie 1086994220 434512068 683993625  
## X21.Cote.d.Or 531218813 228895998 334907889  
## X25.Doubs 406943359 207652481 256416159  
## X39.Jura 63513800 45613972 39514985  
## X58.Nievre 11008282 34128259 5981615  
## X70.Haute.Saone 106730472 66255901 66691812  
## X71.Saone.et.Loire 254651224 138932461 164419011  
## X89.Yonne 186333099 110513160 117788766  
## X90.TerritoiredeBelfort 75346475 44336811 47515951  
## X22.Cotes.d.Armor 876179382 367811664 547554443  
## X29.Finistere 1215190946 522089458 757720300  
## X35.Ille.et.Vilaine 2468618085 925836857 1550897906  
## X56.Morbihan 1099875598 440696720 690214202  
## X18.Cher 20299400 36818510 14866964  
## X28.Eure.et.Loir 161343687 96114009 103526891  
## X36.Indre 67535247 48906765 42850233  
## X37.Indre.et.Loire 649469898 260777619 411664471  
## X41.Loir.et.Cher 294415172 128432908 187018035  
## X45.Loiret 750874526 342114515 471836476  
## X2A.Corse.du.Sud 355474385 120669957 223559244  
## X2B.Haute.Corse 306794480 107818574 193443004  
## X08.Ardennes -47608220 11417104 -27527613  
## X10.Aube 39014942 35209988 28098032  
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## X78.Yvelines 878556166 469476483 551805969  
## X91.Essonne 1391364741 551805969 889956884  
## X92.Hauts.de.Seine 3730672147 1330613268 2404489865  
## X93.Seine.Saint.Denis 2304635402 729625231 1481015632  
## X94.Val.de.Marne 1115581965 380465483 715558099  
## X95.Val.d.Oise 1381297826 653074672 873013091  
## X14.Calvados 712492324 307246628 451235733  
## X27.Eure 332459346 181790365 209991461  
## X50.Manche 412502061 174500708 258098081  
## X61.Orne -53007366 16401462 -31643023  
## X76.Seine.Maritime 733704836 358718255 468725810  
## X16.Charente 262805336 120393931 163019469  
## X17.Charente.Maritime 956590590 391055603 600084469  
## X19.Correze 206712917 94978135 129557490  
## X23.Creuse 26963212 22704170 16793764  
## X24.Dordogne 249202303 124115429 154683333  
## X33.Gironde 2992811966 1060997281 1890304117  
## X40.Landes 468579084 179423247 295692736  
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## X64.Pyrenees.Atlantiques 891250328 345332098 561042751  
## X79.Deux.Sevres 587818359 254085057 366470989  
## X86.Vienne 646355270 281538461 405433014  
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## X30.Gard 803422204 317708639 506270994  
## X31.Haute.Garonne 3758609326 1312316405 2367964601  
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## X66.Pyrenees.Orientales 666115513 261994324 417656903  
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## X95.Val.d.Oise 2218261558 1232546950  
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## X05.Hautes.Alpes 357281411 212874430  
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## X69.Rhone 1773496365 1873398376 1021095239  
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## X71.Saone.et.Loire 109506983 215878434 98022436  
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## X67.Bas.Rhin 591034887 827339195 412308128  
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## X23.Creuse 5258691 33312150 13028608  
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## X87.Haute.Vienne 73413384 158172111 70617791  
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## X63.Puy.de.Dome 106913550 120578347.4 -8456409.25  
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## X46.Lot 73562116 26122671.13  
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## X53.Mayenne 134402347 47829838.44  
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## X06.Alpes.Maritimes 579109469 188826865.97  
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## X84.Vaucluse 323666011 109480183.85  
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## X972.Martinique 225462023 51912753.9 9154028  
## X973.Guyane 168441782 34674762.5 2910360  
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## X38.Isere 723085064 158788392.4 23357015  
## X42.Loire 155118060 39346332.3 11138881  
## X43.Haute.Loire 81627465 18710281.4 3638726  
## X63.Puy.de.Dome 278139769 62009704.8 10497906  
## X69.Rhone 1386707385 282965667.9 20758578  
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## X74.Haute.Savoie 472822322 102778675.7 14912236  
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## X25.Doubs 187568561 46261525.7 12191427  
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## X71.Saone.et.Loire 122229900 31132112.4 8891182  
## X89.Yonne 89359012 23609272.6 7598899  
## X90.TerritoiredeBelfort 35971727 9489249.4 3107320  
## X22.Cotes.d.Armor 385898917 86036955.7 14197796  
## X29.Finistere 540734722 122174616.1 21919307  
## X35.Ille.et.Vilaine 1062461725 224550096.2 24701564  
## X56.Morbihan 483485635 106116492.7 15434972  
## X18.Cher 17017281 7354928.5 4650024  
## X28.Eure.et.Loir 75937801 19719973.9 6347633  
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## X54.Meurthe.et.Moselle 89360978 25957376.3 10341018  
## X55.Meuse -2175910 2227077.1 3153791  
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## X60.Oise 202409815 50777626.2 13961744  
## X62.Pas.de.Calais 635178609 149038490.5 31932646  
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## X93.Seine.Saint.Denis 964501461 189720984.4 4941113  
## X94.Val.de.Marne 472481205 96396665.5 5258691  
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## X61.Orne -15511669 761389.0 4536132  
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## X17.Charente.Maritime 423105301 93891272.4 14784133  
## X19.Correze 93891272 22364626.4 4717116  
## X23.Creuse 14784133 4717116.1 2243205  
## X24.Dordogne 114554662 27986418.2 6831696  
## X33.Gironde 1271850025 260419543.8 20538483  
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## X47.Lot.et.Garonne 155948267 35241337.9 6242842  
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## X87.Haute.Vienne 85369084 22530876.4 6996041  
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## X32.Gers 110042750 24406461.5 3738243  
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## X46.Lot 90183764 20554128.7 3833563  
## X48.Lozere 49822497 11230370.1 1914929  
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## X66.Pyrenees.Orientales 292097093 64018531.2 8812106  
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## X82.Tarn.et.Garonne 146271938 30828536.0 3184118  
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## X49.Maine.et.Loire 470310063 104845188.3 17603388  
## X53.Mayenne 161116921 37244370.5 7706630  
## X72.Sarthe 233160486 56735189.3 14386912  
## X85.Vendee 596334159 129239170.2 17169276  
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## X06.Alpes.Maritimes 697956524 155155498.9 23221725  
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## X84.Vaucluse 396140851 88308094.9 13951183  
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## X972.Martinique 64863834.5 647613973 106828715.1  
## X973.Guyane 41219000.3 552838081 84466096.5  
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## X03.Allier 25040035.3 120459141 24886608.6  
## X07.Ardeche 37246158.3 373342323 60702127.9  
## X15.Cantal 19658688.1 186121179 30936109.8  
## X26.Drome 72791996.4 901949135 141150811.1  
## X38.Isere 191475420.0 2216822390 351619721.6  
## X42.Loire 51269966.9 390413454 68701126.6  
## X43.Haute.Loire 23892767.7 235252054 38308758.9  
## X63.Puy.de.Dome 75477522.8 837919966 133561193.1  
## X69.Rhone 320953501.3 4652445682 704249967.9  
## X73.Savoie 79958263.3 1069049466 165903479.0  
## X74.Haute.Savoie 123645881.3 1476109522 229931094.0  
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## X25.Doubs 60115975.9 492325293 84000952.0  
## X39.Jura 12736760.2 61491430 11739914.8  
## X58.Nievre 10223244.0 -23441817 393910.8  
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## X71.Saone.et.Loire 40404706.2 301661374 54095655.1  
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## X90.TerritoiredeBelfort 13310546.8 82709725 15087541.4  
## X22.Cotes.d.Armor 106799096.9 1154964006 185063179.7  
## X29.Finistere 153130616.2 1584403710 256641935.6  
## X35.Ille.et.Vilaine 265938176.8 3407040025 527089168.1  
## X56.Morbihan 128801916.3 1475555537 234791148.2  
## X18.Cher 11074639.1 -7304972 3829059.3  
## X28.Eure.et.Loir 26958105.3 184099136 32615845.3  
## X36.Indre 14995461.0 62139250 13804410.0  
## X37.Indre.et.Loire 74843311.0 876042734 139421311.4  
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## X45.Loiret 99961913.1 955232464 157574872.1  
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## X57.Moselle 67522024.4 361203010 71741847.5  
## X67.Bas.Rhin 151952008.8 1617174382 259016069.9  
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## X60.Oise 66484544.5 511222078 89872898.0  
## X62.Pas.de.Calais 186902854.7 1789273639 295729814.6  
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## X93.Seine.Saint.Denis 201255032.8 3393778897 503373409.0  
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## X14.Calvados 88356665.8 931584945 151858046.9  
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## X61.Orne 4512672.4 -116757856 -13125006.9  
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## X06.Alpes.Maritimes 181913955.3 2113701951 339944829.8  
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## X01.Ain 123303594 299571808  
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## X15.Cantal 24911467 59223775  
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## X42.Loire 59589059 132875447  
## X43.Haute.Loire 30711373 73400422  
## X63.Puy.de.Dome 103911819 254811075  
## X69.Rhone 500865325 1327303299  
## X73.Savoie 120120350 313996620  
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## X25.Doubs 72157591 162934958  
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## X37.Indre.et.Loire 104452065 264423490  
## X41.Loir.et.Cher 48817615 119480525  
## X45.Loiret 127525968 302500639  
## X2A.Corse.du.Sud 54032649 144944930  
## X2B.Haute.Corse 47156040 125365703  
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## X10.Aube 9553079 16792994  
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## X19.Correze 35241338 83884588  
## X23.Creuse 6242842 10650554  
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## X11.Aude 79014423 198956855  
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## X44.Loire.Atlantique 518798416 1348236055  
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## X972.Martinique 139572795 154715845 49074054.6  
## X973.Guyane 103005261 112261460 25935809.0  
## X974.LaReunion 434866535 479939828 111723580.2  
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## X03.Allier 42263592 48098200 24132098.6  
## X07.Ardeche 81073555 89478492 28586070.2  
## X15.Cantal 41690409 46146078 15046129.1  
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## X42.Loire 99233443 111579097 46411952.1  
## X43.Haute.Loire 51817470 56916823 17733864.5  
## X63.Puy.de.Dome 171733940 190267240 57434923.2  
## X69.Rhone 825082253 907554947 219386825.6  
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## X74.Haute.Savoie 290935819 320215194 89806566.0  
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## X39.Jura 21901789 24323497 12084179.1  
## X58.Nievre 10723349 12614551 11794594.4  
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## X71.Saone.et.Loire 78014287 88103999 36670078.2  
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## X22.Cotes.d.Armor 240211855 264345676 78504596.0  
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## X56.Morbihan 296381946 326968407 94021695.1  
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## X28.Eure.et.Loir 50875719 56815175 24180195.9  
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## X37.Indre.et.Loire 173523777 192490546 56618994.6  
## X41.Loir.et.Cher 82221449 91259732 29756960.2  
## X45.Loiret 212732741 236061924 79857848.8  
## X2A.Corse.du.Sud 89588696 98540470 22723149.4  
## X2B.Haute.Corse 78487719 86637007 20901269.7  
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## X10.Aube 15733890 18665889 12351224.3  
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## X52.Haute.Marne -6328523 -6352826 3842566.8  
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## X57.Moselle 117208233 134067668 67465250.7  
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## X62.Pas.de.Calais 397343765 442557567 151908921.3  
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## X92.Hauts.de.Seine 946446260 1049935274 269922878.7  
## X93.Seine.Saint.Denis 557846921 615852928 133219734.9  
## X94.Val.de.Marne 276327054 307467821 73413384.1  
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## X17.Charente.Maritime 260087161 287306895 85369084.2  
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## X23.Creuse 10424491 11927576 6996040.9  
## X24.Dordogne 74138232 82002372 29275845.7  
## X33.Gironde 764224275 837364227 199636807.4  
## X40.Landes 123408651 136349629 37073262.0  
## X47.Lot.et.Garonne 97290669 107275870 32615107.3  
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## X12.Aveyron 82653577 91402552 27283338.9  
## X30.Gard 214192640 238439884 70144455.6  
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## X32.Gers 67381474 74587212 21807361.8  
## X34.Herault 581642473 641554830 166505956.7  
## X46.Lot 56669256 62361997 19116978.5  
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## X66.Pyrenees.Orientales 177409674 196499741 55968878.1  
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## X82.Tarn.et.Garonne 88644508 97131089 24410825.3  
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## X05.Hautes.Alpes 58189853 64886961 19909131.3  
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## X973.Guyane 20963903.7 86535441 53309591.4 142063124  
## X974.LaReunion 90369410.6 380364594 232131433.6 628692568  
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## X38.Isere 96420081.8 368376290 229657704.2 609985116  
## X42.Loire 24005876.2 75321618 49243651.1 126015802  
## X43.Haute.Loire 11359329.9 40878136 26014950.3 67001096  
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## X69.Rhone 171327985.5 716967397 438422941.1 1188369201  
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## X25.Doubs 28375751.1 92627924 59920755.7 153413377  
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## X29.Finistere 74272569.6 272545190 172141029.2 448522831  
## X35.Ille.et.Vilaine 136064297.3 545690435 337249229.0 899731527  
## X56.Morbihan 64168084.5 246609984 153795282.1 407005280  
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## X28.Eure.et.Loir 12195554.7 36143417 24272099.0 60214148  
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## X37.Indre.et.Loire 37808211.1 145645640 90773374.3 242025648  
## X41.Loir.et.Cher 18188650.7 66362761 42120571.6 110325964  
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## X52.Haute.Marne -406335.9 -8590196 -4362451.4 -13750583  
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## X57.Moselle 30436031.8 83389463 56621005.0 140585003  
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## X91.Essonne 77891911.4 305298774 190305145.0 506270994  
## X92.Hauts.de.Seine 199468629.9 826451035 506260528.5 1377285158  
## X93.Seine.Saint.Denis 114679843.9 505827371 304697087.1 842504033  
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## X27.Eure 24698531.3 76619361 50164001.0 127396447  
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## X23.Creuse 2957459.6 6726076 4796250.2 11173210  
## X24.Dordogne 16948535.9 56781437 36690734.3 92970692  
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## X30.Gard 47280950.4 182835354 113277074.6 303616694  
## X31.Haute.Garonne 198703695.6 831547460 508446887.3 1373185816  
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## X49.Maine.et.Loire 63621908.9 237213957 149584334.9 390349453  
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## X2B.Haute.Corse 546672340 34460908.9 320444202  
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## X15.Cantal 14544208.3 7981138.6 11218134  
## X26.Drome 60190423.6 33302545.1 40889895  
## X38.Isere 153559296.9 84747643.2 108349912  
## X42.Loire 34739483.2 18579099.7 31002977  
## X43.Haute.Loire 18056345.6 9836968.4 13109829  
## X63.Puy.de.Dome 60189775.4 32780638.3 42903681  
## X69.Rhone 284952913.6 158855031.4 175315892  
## X73.Savoie 68579087.1 38167444.2 46230361  
## X74.Haute.Savoie 101646772.8 55623160.1 68517842  
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## X39.Jura 7992152.8 4003171.4 7513884  
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## X70.Haute.Saone 12459052.7 6597373.4 12557615  
## X71.Saone.et.Loire 27356673.3 14599427.2 24837162  
## X89.Yonne 20797628.3 11059396.1 19169969  
## X90.TerritoiredeBelfort 8429838.0 4506155.7 7636832  
## X22.Cotes.d.Armor 83407971.4 45898923.3 59222938  
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## X35.Ille.et.Vilaine 223634973.9 124166033.6 145090420  
## X56.Morbihan 102700258.1 56922837.7 72277959  
## X18.Cher 4754386.8 2251018.5 8092998  
## X28.Eure.et.Loir 17945569.9 9382799.4 15646626  
## X36.Indre 8575813.0 4532594.1 9568563  
## X37.Indre.et.Loire 60115618.2 33278449.3 42868088  
## X41.Loir.et.Cher 28335470.9 15609517.0 21556935  
## X45.Loiret 74471907.7 40444700.5 57507665  
## X2A.Corse.du.Sud 30807021.8 17360012.0 19068680  
## X2B.Haute.Corse 26940019.0 15173612.9 17190228  
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## X10.Aube 5541846.2 2808681.2 7268522  
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## X54.Meurthe.et.Moselle 21108211.6 11039370.0 23204112  
## X55.Meuse 835141.5 139729.8 3608017  
## X57.Moselle 41562159.5 21628513.4 42611326  
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## X68.Haut.Rhin 44764398.6 23762076.6 38466192  
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## X78.Yvelines 88720972.0 48054954.0 69807590  
## X91.Essonne 126474732.5 69851715.3 85441680  
## X92.Hauts.de.Seine 326370427.3 182006855.1 210844177  
## X93.Seine.Saint.Denis 193997530.4 108273298.5 110970064  
## X94.Val.de.Marne 95386398.4 53638644.1 59681622  
## X95.Val.d.Oise 137078544.5 75409969.4 113198015  
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## X40.Landes 42621102.0 23729387.5 28944030  
## X47.Lot.et.Garonne 33997505.9 18642936.3 24641500  
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## X32.Gers 23540927.7 12991311.4 16842008  
## X34.Herault 202003782.0 112687237.5 133848047  
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## X65.Hautes.Pyrenees 14355213.4 7814062.7 13177823  
## X66.Pyrenees.Orientales 61807068.8 34305601.8 43544673  
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## X82.Tarn.et.Garonne 30756940.5 17111550.5 19808511  
## X44.Loire.Atlantique 297669375.4 165793237.6 188549144  
## X49.Maine.et.Loire 101771220.0 55955361.6 72269833  
## X53.Mayenne 35933095.7 19502647.1 26296439  
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## X05.Hautes.Alpes 20218442.1 11255505.4 15297390  
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## X13.Bouches.du.Rhone 300378195.8 167378912.8 200031746  
## X83.Var 150180580.1 83956041.6 105886067  
## X84.Vaucluse 84174868.3 46545058.9 61764967  
## X66.Pyrenees.Orientales X81.Tarn  
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## X972.Martinique 155220750 49853249.166  
## X973.Guyane 118474169 34698727.645  
## X974.LaReunion 519998304 150192333.462  
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## X03.Allier 39271711 16928751.823  
## X07.Ardeche 87975721 29254135.324  
## X15.Cantal 45140478 14953714.925  
## X26.Drome 199860000 61700795.739  
## X38.Isere 501906639 157861571.693  
## X42.Loire 102058764 38356313.810  
## X43.Haute.Loire 55471793 18242953.472  
## X63.Puy.de.Dome 191978419 62294631.629  
## X69.Rhone 982437806 289311589.941  
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## X39.Jura 19115411 9009115.234  
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## X90.TerritoiredeBelfort 23032197 9155343.883  
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## X54.Meurthe.et.Moselle 55861638 24557121.926  
## X55.Meuse -4228918 1824812.879  
## X57.Moselle 111780024 47739949.526  
## X67.Bas.Rhin 372902137 122162424.217  
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## X77.Seine.et.Marne 666115513 205089071.501  
## X78.Yvelines 261994324 91293744.962  
## X91.Essonne 417656903 128825007.357  
## X92.Hauts.de.Seine 1132810522 334125546.548  
## X93.Seine.Saint.Denis 695743753 196720141.871  
## X94.Val.de.Marne 338770426 97262585.837  
## X95.Val.d.Oise 428201245 145857136.505  
## X14.Calvados 219180061 71440267.303  
## X27.Eure 103277261 39122828.192  
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## X61.Orne -15184648 71135.778  
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## X17.Charente.Maritime 292097093 92522703.020  
## X19.Correze 64018531 21544193.200  
## X23.Creuse 8812106 4473093.055  
## X24.Dordogne 76493091 26619204.562  
## X33.Gironde 898356205 264767949.045  
## X40.Landes 142665687 43152233.099  
## X47.Lot.et.Garonne 107224582 34967669.647  
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## X86.Vienne 196499741 63879322.471  
## X87.Haute.Vienne 55968878 21695673.305  
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## X12.Aveyron 93074697 29453158.330  
## X30.Gard 248283153 77417127.695  
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## X32.Gers 76459034 24186357.133  
## X34.Herault 682066201 204414015.570  
## X46.Lot 61807069 20264045.367  
## X48.Lozere 34305602 11019769.103  
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## X66.Pyrenees.Orientales 204159924 63353690.661  
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## X82.Tarn.et.Garonne 102686593 30763116.259  
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## X49.Maine.et.Loire 322671066 103459869.843  
## X53.Mayenne 108834861 36647623.574  
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## X05.Hautes.Alpes 66214495 20924714.570  
## X06.Alpes.Maritimes 487884030 153823803.083  
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## X83.Var 504680313 153825385.044  
## X84.Vaucluse 275165731 87596321.080  
## X82.Tarn.et.Garonne X44.Loire.Atlantique  
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## X972.Martinique 76258670.6 734785739  
## X973.Guyane 62041674.5 609149690  
## X974.LaReunion 271509961.6 2671134290  
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## X03.Allier 16045175.3 149285913  
## X07.Ardeche 43340982.3 421170802  
## X15.Cantal 21953294.3 211846994  
## X26.Drome 101838445.3 999925531  
## X38.Isere 252832511.0 2471930913  
## X42.Loire 47006589.2 452150875  
## X43.Haute.Loire 27461886.8 266189699  
## X63.Puy.de.Dome 95777385.5 936928910  
## X69.Rhone 514959576.2 5095635463  
## X73.Savoie 120019607.5 1181038363  
## X74.Haute.Savoie 167392081.7 1639321377  
## X21.Cote.d.Or 80070927.8 779827802  
## X25.Doubs 58645976.7 567140607  
## X39.Jura 8040349.7 75508091  
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## X70.Haute.Saone 14563424.7 136033997  
## X71.Saone.et.Loire 36733316.6 351143868  
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## X90.TerritoiredeBelfort 10393184.8 98587596  
## X22.Cotes.d.Armor 133107692.6 1296269275  
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## X35.Ille.et.Vilaine 383912947.9 3770191469  
## X56.Morbihan 168992089.1 1649785350  
## X18.Cher 970218.6 4167376  
## X28.Eure.et.Loir 22299316.0 215066105  
## X36.Indre 8731064.1 79787945  
## X37.Indre.et.Loire 99692974.2 976657530  
## X41.Loir.et.Cher 44205414.5 431788670  
## X45.Loiret 111791749.7 1084016090  
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## X2B.Haute.Corse 48239003.5 475678678  
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## X62.Pas.de.Calais 208933236.6 2030200624  
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## X78.Yvelines 125582025.0 1215011300  
## X91.Essonne 212899269.6 2096357117  
## X92.Hauts.de.Seine 586940759.6 5808496792  
## X93.Seine.Saint.Denis 369578165.7 3681320809  
## X94.Val.de.Marne 176448736.9 1748038677  
## X95.Val.d.Oise 203558110.3 1972661288  
## X14.Calvados 107441436.3 1048954500  
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## X16.Charente 39006079.2 377053431  
## X17.Charente.Maritime 146271937.5 1425391388  
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## X23.Creuse 3184118.3 28159354  
## X24.Dordogne 36403638.1 347572699  
## X33.Gironde 470599556.8 4643361239  
## X40.Landes 72704518.8 713072593  
## X47.Lot.et.Garonne 53454662.3 518798416  
## X64.Pyrenees.Atlantiques 137686350.7 1348236055  
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## X87.Haute.Vienne 24410825.3 235417982  
## X09.Ariege 18660058.7 179809520  
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## X30.Gard 123943164.7 1210537375  
## X31.Haute.Garonne 593266461.1 5840620266  
## X32.Gers 38317550.6 372819642  
## X34.Herault 350081933.5 3430567472  
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## X48.Lozere 17111550.5 165793238  
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## X82.Tarn.et.Garonne 53357513.5 520788099  
## X44.Loire.Atlantique 520788099.3 5123997350  
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## X05.Hautes.Alpes 32650750.7 316919851  
## X06.Alpes.Maritimes 241408172.9 2363700720  
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## X84.Vaucluse 136732061.8 1334357281  
## X49.Maine.et.Loire X53.Mayenne X72.Sarthe  
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## X973.Guyane 187396707.0 62131983.3 82699358  
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## X03.Allier 72637346.4 29404334.3 51445594  
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## X15.Cantal 74551320.9 26354938.4 39498563  
## X26.Drome 317225937.2 106521749.4 150522316  
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## X42.Loire 176142539.1 65994422.0 106419261  
## X43.Haute.Loire 92457389.0 32944555.1 48182062  
## X63.Puy.de.Dome 310489076.3 107485077.5 157046640  
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## X73.Savoie 362851205.9 118938774.6 166904359  
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## X93.Seine.Saint.Denis 1043086717.5 329165518.0 426684027  
## X94.Val.de.Marne 512485671.8 163216918.7 218300457  
## X95.Val.d.Oise 708172469.7 250958599.3 388275898  
## X14.Calvados 352613754.7 121983026.9 181932891  
## X27.Eure 178731773.0 67552081.6 109946024  
## X50.Manche 203198555.6 70154340.3 103044572  
## X61.Orne -13063444.9 668771.0 10244388  
## X76.Seine.Maritime 377041861.2 134402347.0 214505619  
## X16.Charente 133217898.3 47829838.4 71340661  
## X17.Charente.Maritime 470310063.0 161116921.4 233160486  
## X19.Correze 104845188.3 37244370.5 56735189  
## X23.Creuse 17603388.1 7706629.9 14386912  
## X24.Dordogne 130957785.3 48157500.9 73628481  
## X33.Gironde 1403650032.7 461005543.4 618535242  
## X40.Landes 225016679.5 74986752.2 105273493  
## X47.Lot.et.Garonne 175156207.7 61204135.9 89259245  
## X64.Pyrenees.Atlantiques 428954817.4 144044179.1 203251101  
## X79.Deux.Sevres 293732413.7 103042764.1 149242184  
## X86.Vienne 322759645.5 113067859.3 165897295  
## X87.Haute.Vienne 96036982.9 36256428.1 61281741  
## X09.Ariege 63621908.9 22735151.1 34756199  
## X11.Aude 237213956.8 80175477.0 115104840  
## X12.Aveyron 149584334.9 51245083.9 74424477  
## X30.Gard 390349453.0 131254177.0 190308193  
## X31.Haute.Garonne 1761137708.3 573183835.7 771230900  
## X32.Gers 122151285.0 41689241.4 60282892  
## X34.Herault 1065219964.8 352136904.3 488185843  
## X46.Lot 101771220.0 35933095.7 52498023  
## X48.Lozere 55955361.6 19502647.1 28200154  
## X65.Hautes.Pyrenees 72269832.5 26296439.1 42923568  
## X66.Pyrenees.Orientales 322671066.1 108834861.1 155592810  
## X81.Tarn 103459869.8 36647623.6 55641946  
## X82.Tarn.et.Garonne 161898024.7 53902099.0 73796437  
## X44.Loire.Atlantique 1575964124.5 521791459.6 710610594  
## X49.Maine.et.Loire 529195557.4 183771312.7 265230613  
## X53.Mayenne 183771312.7 66351436.0 97377515  
## X72.Sarthe 265230612.9 97377515.0 152224064  
## X85.Vendee 662422422.1 224370252.0 316346933  
## X04.Alpes.de.Haute.Provence 99619649.0 33833539.8 48454856  
## X05.Hautes.Alpes 105264250.6 35818978.5 52670692  
## X06.Alpes.Maritimes 762466486.1 255701124.0 376854626  
## X13.Bouches.du.Rhone 1584584772.8 521544928.3 726527038  
## X83.Var 788968042.9 262233272.4 373641796  
## X84.Vaucluse 438311050.9 149246939.0 218360725  
## X85.Vendee X04.Alpes.de.Haute.Provence  
## X971.Guadeloupe 390403743 58630975  
## X972.Martinique 313436056 47847585  
## X973.Guyane 245043352 36385024  
## X974.LaReunion 1068012786 158288426  
## X01.Ain 463561555 69597846  
## X03.Allier 77363832 12439794  
## X07.Ardeche 179850008 27288489  
## X15.Cantal 91549071 13987631  
## X26.Drome 409790393 61289129  
## X38.Isere 1025691162 154185459  
## X42.Loire 206143551 31664050  
## X43.Haute.Loire 113916476 17181868  
## X63.Puy.de.Dome 392804423 59191595  
## X69.Rhone 2029672898 299500787  
## X73.Savoie 478870797 71277516  
## X74.Haute.Savoie 676510308 101154881  
## X21.Cote.d.Or 330987411 50068626  
## X25.Doubs 253897157 38957373  
## X39.Jura 39236143 6139495  
## X58.Nievre 7172537 1676372  
## X70.Haute.Saone 67660724 10786354  
## X71.Saone.et.Loire 161199934 24871773  
## X89.Yonne 116290968 18026429  
## X90.TerritoiredeBelfort 47000778 7272837  
## X22.Cotes.d.Armor 544176907 81807462  
## X29.Finistere 756818288 114359414  
## X35.Ille.et.Vilaine 1533410480 228402701  
## X56.Morbihan 685538169 102927795  
## X18.Cher 14550794 2834412  
## X28.Eure.et.Loir 100469462 15537100  
## X36.Indre 43256175 7091528  
## X37.Indre.et.Loire 404874028 60715855  
## X41.Loir.et.Cher 183513940 27818055  
## X45.Loiret 468156681 71076984  
## X2A.Corse.du.Sud 220829293 32717356  
## X2B.Haute.Corse 190896969 28466187  
## X08.Ardennes -28017904 -3581469  
## X10.Aube 26325452 4365285  
## X51.Marne 164493486 25203562  
## X52.Haute.Marne -25166926 -3442010  
## X54.Meurthe.et.Moselle 108771934 17457710  
## X55.Meuse -10018093 -1065292  
## X57.Moselle 221726104 34862270  
## X67.Bas.Rhin 766020691 114970209  
## X68.Haut.Rhin 257012555 39579648  
## X88.Vosges -52825401 -6891198  
## X02.Aisne -48728832 -6499359  
## X59.Nord 1536219149 231628484  
## X60.Oise 270029765 41482733  
## X62.Pas.de.Calais 877993520 133702451  
## X80.Somme 265212277 40844659  
## X75.Paris -86865373 -16988553  
## X77.Seine.et.Marne 1371888651 203694542  
## X78.Yvelines 537367977 80881990  
## X91.Essonne 859512911 127254594  
## X92.Hauts.de.Seine 2325272029 342817655  
## X93.Seine.Saint.Denis 1435699240 210166666  
## X94.Val.de.Marne 692925445 101985869  
## X95.Val.d.Oise 863230006 131124798  
## X14.Calvados 444406910 67147192  
## X27.Eure 207820691 32103958  
## X50.Manche 256357693 38602217  
## X61.Orne -32867863 -4285205  
## X76.Seine.Maritime 458929662 70176758  
## X16.Charente 163036534 24671360  
## X17.Charente.Maritime 596334159 89703137  
## X19.Correze 129239170 19715868  
## X23.Creuse 17169276 2828461  
## X24.Dordogne 155243091 23893063  
## X33.Gironde 1857429189 274668008  
## X40.Landes 291908811 43638392  
## X47.Lot.et.Garonne 219281258 33165135  
## X64.Pyrenees.Atlantiques 554470304 82842535  
## X79.Deux.Sevres 364286647 54854239  
## X86.Vienne 401172863 60560363  
## X87.Haute.Vienne 110885200 17229126  
## X09.Ariege 78258775 11952808  
## X11.Aude 305309985 46021840  
## X12.Aveyron 189605259 28633315  
## X30.Gard 503005401 76021008  
## X31.Haute.Garonne 2338086238 346817616  
## X32.Gers 155687137 23535570  
## X34.Herault 1395383160 208431348  
## X46.Lot 126639724 19159631  
## X48.Lozere 70092898 10605164  
## X65.Hautes.Pyrenees 86099245 13456813  
## X66.Pyrenees.Orientales 415477785 62527688  
## X81.Tarn 128517200 19567877  
## X82.Tarn.et.Garonne 211479611 31517063  
## X44.Loire.Atlantique 2068279825 306742687  
## X49.Maine.et.Loire 662422422 99619649  
## X53.Mayenne 224370252 33833540  
## X72.Sarthe 316346933 48454856  
## X85.Vendee 852667591 127459121  
## X04.Alpes.de.Haute.Provence 127459121 19375408  
## X05.Hautes.Alpes 133585950 20342693  
## X06.Alpes.Maritimes 984428735 148610528  
## X13.Bouches.du.Rhone 2089470673 312237592  
## X83.Var 1023774111 154222904  
## X84.Vaucluse 558388416 84523456  
## X05.Hautes.Alpes X06.Alpes.Maritimes  
## X971.Guadeloupe 62033001 448131138  
## X972.Martinique 52066531 371921440  
## X973.Guyane 37356168 274296223  
## X974.LaReunion 163594619 1226711555  
## X01.Ain 73195721 533896317  
## X03.Allier 14661582 100382733  
## X07.Ardeche 28977822 209383902  
## X15.Cantal 15109822 107658469  
## X26.Drome 64118469 477039611  
## X38.Isere 162830738 1200035916  
## X42.Loire 35313357 254499104  
## X43.Haute.Loire 18244098 130455600  
## X63.Puy.de.Dome 62433790 459104189  
## X69.Rhone 307090956 2333110445  
## X73.Savoie 74824413 565697719  
## X74.Haute.Savoie 104948799 777211970  
## X21.Cote.d.Or 54170533 394354734  
## X25.Doubs 42565737 305312891  
## X39.Jura 6823480 46690709  
## X58.Nievre 2741616 13450232  
## X70.Haute.Saone 12665304 87791356  
## X71.Saone.et.Loire 28088502 202071453  
## X89.Yonne 20520936 142604389  
## X90.TerritoiredeBelfort 8189189 56182320  
## X22.Cotes.d.Armor 86563282 628476001  
## X29.Finistere 121682652 877439609  
## X35.Ille.et.Vilaine 236741072 1756480710  
## X56.Morbihan 108909676 798142038  
## X18.Cher 4499484 29468730  
## X28.Eure.et.Loir 17001844 119902447  
## X36.Indre 8679768 58221854  
## X37.Indre.et.Loire 64494234 477564231  
## X41.Loir.et.Cher 30057875 218076765  
## X45.Loiret 76476108 553830707  
## X2A.Corse.du.Sud 33885733 255022340  
## X2B.Haute.Corse 29687696 221234171  
## X08.Ardennes -2585808 -23726049  
## X10.Aube 5638812 40512621  
## X51.Marne 28351200 204793818  
## X52.Haute.Marne -3026130 -24833245  
## X54.Meurthe.et.Moselle 21222448 147371099  
## X55.Meuse -212845 -6904212  
## X57.Moselle 40843961 289917718  
## X67.Bas.Rhin 121471361 887203504  
## X68.Haut.Rhin 43421984 308312488  
## X88.Vosges -5026890 -44283557  
## X02.Aisne -4640152 -41699433  
## X59.Nord 246033685 1814926759  
## X60.Oise 46440824 331414344  
## X62.Pas.de.Calais 144006555 1048622955  
## X80.Somme 45019622 318291910  
## X75.Paris -25426417 10682062  
## X77.Seine.et.Marne 213162852 1566596599  
## X78.Yvelines 88282119 620582554  
## X91.Essonne 133750483 995757881  
## X92.Hauts.de.Seine 357281411 2726758321  
## X93.Seine.Saint.Denis 212874430 1661081344  
## X94.Val.de.Marne 106490263 813225330  
## X95.Val.d.Oise 145361205 1048364846  
## X14.Calvados 72304480 532645222  
## X27.Eure 35869942 256456877  
## X50.Manche 41122908 301357677  
## X61.Orne -3174425 -30049011  
## X76.Seine.Maritime 79657978 579109469  
## X16.Charente 26372113 188826866  
## X17.Charente.Maritime 95376683 697956524  
## X19.Correze 21523721 155155499  
## X23.Creuse 3464980 23221725  
## X24.Dordogne 26184719 181913955  
## X33.Gironde 281377071 2113701951  
## X40.Landes 45903082 339944830  
## X47.Lot.et.Garonne 35140161 254158753  
## X64.Pyrenees.Atlantiques 87272939 645553196  
## X79.Deux.Sevres 58189853 417470819  
## X86.Vienne 64886961 467943716  
## X87.Haute.Vienne 19909131 144099465  
## X09.Ariege 12975838 93784981  
## X11.Aude 48882363 359426515  
## X12.Aveyron 30478454 222380863  
## X30.Gard 81034666 599318309  
## X31.Haute.Garonne 357709614 2682637560  
## X32.Gers 24938382 182451705  
## X34.Herault 217773537 1620695691  
## X46.Lot 20218442 145719012  
## X48.Lozere 11255505 80770743  
## X65.Hautes.Pyrenees 15297390 109028618  
## X66.Pyrenees.Orientales 66214495 487884030  
## X81.Tarn 20924715 153823803  
## X82.Tarn.et.Garonne 32650751 241408173  
## X44.Loire.Atlantique 316919851 2363700720  
## X49.Maine.et.Loire 105264251 762466486  
## X53.Mayenne 35818979 255701124  
## X72.Sarthe 52670692 376854626  
## X85.Vendee 133585950 984428735  
## X04.Alpes.de.Haute.Provence 20342693 148610528  
## X05.Hautes.Alpes 22077160 159806827  
## X06.Alpes.Maritimes 159806827 1195778773  
## X13.Bouches.du.Rhone 326099856 2450951886  
## X83.Var 164064114 1210362283  
## X84.Vaucluse 90265954 663305342  
## X13.Bouches.du.Rhone X83.Var X84.Vaucluse  
## X971.Guadeloupe 950627206 472710592 255590572  
## X972.Martinique 751448006 382363488 211975283  
## X973.Guyane 606591206 293325934 156721310  
## X974.LaReunion 2700216338 1295347426 686220254  
## X01.Ain 1109779706 548131218 306852966  
## X03.Allier 159574698 91128944 58966630  
## X07.Ardeche 426667506 213696064 120601063  
## X15.Cantal 215695391 110185945 62062478  
## X26.Drome 1013612316 493707993 269087386  
## X38.Isere 2511667509 1235370160 679347386  
## X42.Loire 468471207 243040249 145868588  
## X43.Haute.Loire 266951239 134643642 75669836  
## X63.Puy.de.Dome 952603240 469277845 261767536  
## X69.Rhone 5142884398 2439577094 1303075015  
## X73.Savoie 1208644217 583835123 314147409  
## X74.Haute.Savoie 1653371128 802961934 443507712  
## X21.Cote.d.Or 798257270 401914234 223325900  
## X25.Doubs 582953378 299447830 176796551  
## X39.Jura 77057769 42083809 28929523  
## X58.Nievre -9759565 4386523 10469937  
## X70.Haute.Saone 146638510 81763898 50755450  
## X71.Saone.et.Loire 367242219 193085322 114965709  
## X89.Yonne 252234314 136415495 83486090  
## X90.TerritoiredeBelfort 100287193 54086286 33486405  
## X22.Cotes.d.Armor 1307085161 649906987 360303035  
## X29.Finistere 1803365431 904367891 504841355  
## X35.Ille.et.Vilaine 3797483296 1840022928 995039601  
## X56.Morbihan 1671401234 826455687 452921252  
## X18.Cher 15701691 17548564 17087968  
## X28.Eure.et.Loir 218811779 114457321 71137592  
## X36.Indre 88000300 52263092 34140943  
## X37.Indre.et.Loire 995908666 490261055 268567496  
## X41.Loir.et.Cher 440663638 221566482 123967481  
## X45.Loiret 1105623853 557891953 317615779  
## X2A.Corse.du.Sud 561051920 269783856 142139108  
## X2B.Haute.Corse 481597195 233589475 123808176  
## X08.Ardennes -92685133 -36574415 -11739725  
## X10.Aube 52423656 31332682 22886695  
## X51.Marne 371330563 194503087 117194373  
## X52.Haute.Marne -77338722 -33324539 -12774687  
## X54.Meurthe.et.Moselle 226266462 130675973 85401650  
## X55.Meuse -45179970 -14501793 -1981269  
## X57.Moselle 471683699 260452856 167348493  
## X67.Bas.Rhin 1833483573 908477968 508716450  
## X68.Haut.Rhin 571505571 298022511 181462035  
## X88.Vosges -170316324 -67133709 -23049353  
## X02.Aisne -156449264 -61163251 -22162548  
## X59.Nord 3704806652 1833050251 1031148588  
## X60.Oise 615477850 322351770 190384126  
## X62.Pas.de.Calais 2086209288 1051847450 598866246  
## X80.Somme 607902207 316294327 184534667  
## X75.Paris 72454747 -120892828 -47570482  
## X77.Seine.et.Marne 3347015605 1639846974 891933440  
## X78.Yvelines 1219181015 627179946 362840183  
## X91.Essonne 2114696450 1028695235 560973452  
## X92.Hauts.de.Seine 5906436275 2821542630 1507438762  
## X93.Seine.Saint.Denis 3739683353 1738685562 910994592  
## X94.Val.de.Marne 1781362602 848902916 447201632  
## X95.Val.d.Oise 2032089686 1047612597 595412932  
## X14.Calvados 1079005256 538493167 300081994  
## X27.Eure 468742777 245936591 147865602  
## X50.Manche 619405333 308498613 171284819  
## X61.Orne -111746300 -43930625 -14607198  
## X76.Seine.Maritime 1086505933 565285615 323666011  
## X16.Charente 380579819 192452922 109480184  
## X17.Charente.Maritime 1446962364 718698633 396140851  
## X19.Correze 305712750 156089691 88308095  
## X23.Creuse 31431494 19477753 13951183  
## X24.Dordogne 351725367 184320978 106573300  
## X33.Gironde 4665052391 2227359564 1190726987  
## X40.Landes 722868391 353854649 191319914  
## X47.Lot.et.Garonne 525244050 261586546 146193279  
## X64.Pyrenees.Atlantiques 1367170186 670095536 363951026  
## X79.Deux.Sevres 862570992 432870758 241577565  
## X86.Vienne 955369620 480526508 268543752  
## X87.Haute.Vienne 251668758 133848312 81238999  
## X09.Ariege 185256567 93912016 53571900  
## X11.Aude 750800039 371466775 202669694  
## X12.Aveyron 460062046 229172799 126239100  
## X30.Gard 1244515577 615145334 335912316  
## X31.Haute.Garonne 5894067612 2829391816 1504977808  
## X32.Gers 379914828 188131871 103631124  
## X34.Herault 3483006746 1694240701 910548256  
## X46.Lot 300378196 150180580 84174868  
## X48.Lozere 167378913 83956042 46545059  
## X65.Hautes.Pyrenees 200031746 105886067 61764967  
## X66.Pyrenees.Orientales 1023150772 504680313 275165731  
## X81.Tarn 308329677 153825385 87596321  
## X82.Tarn.et.Garonne 523873034 254129190 136732062  
## X44.Loire.Atlantique 5154189139 2484092365 1334357281  
## X49.Maine.et.Loire 1584584773 788968043 438311051  
## X53.Mayenne 521544928 262233272 149246939  
## X72.Sarthe 726527038 373641796 218360725  
## X85.Vendee 2089470673 1023774111 558388416  
## X04.Alpes.de.Haute.Provence 312237592 154222904 84523456  
## X05.Hautes.Alpes 326099856 164064114 90265954  
## X06.Alpes.Maritimes 2450951886 1210362283 663305342  
## X13.Bouches.du.Rhone 5264926585 2543132814 1368419698  
## X83.Var 2543132814 1256362364 679075669  
## X84.Vaucluse 1368419698 679075669 374831896

## Nombre de colonne

ncol(x\_matrix)

## [1] 100

## Nombre de ligne

nrow(x\_matrix)

## [1] 30

#Données centrées réduites

centree\_reduite <- scale(x\_matrix, center = T, scale = T);

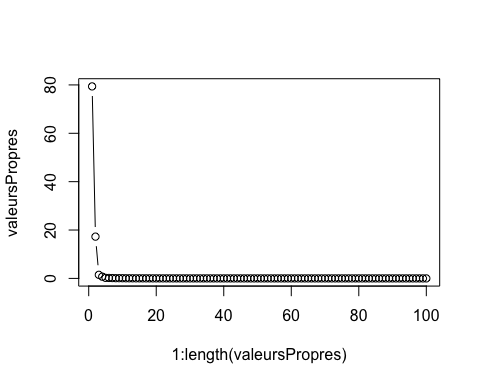
#Analyse en composante principale

## Valeurs propres

propres <- eigen(cor(centree\_reduite));  
valeursPropres <- propres$values;  
vecteursPropres <- propres$vectors;

## Graphique des valeurs propres (éboulis et coude)

plot(1:length(valeursPropres), valeursPropres, type = "b");



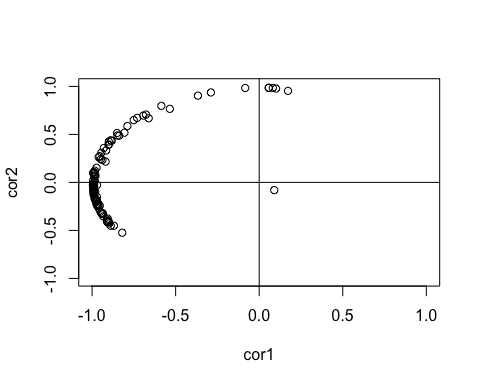
## Composantes principales

data\_acp <- centree\_reduite %\*% vecteursPropres;  
composante\_principale\_1 <- data\_acp[, 1];  
composante\_principale\_2 <- data\_acp[, 2];

## Cercle de correlation

Calcule de la correlation entre chaque variable et les composantes principales

cor1 <- cor(composante\_principale\_1,centree\_reduite);  
cor2 <- cor(composante\_principale\_2,centree\_reduite);  
plot(cor1, cor2, xlim = c(-1, +1), ylim = c(-1, +1))  
abline(h = 0, v = 0)  
text(cor1, cor2, labels = colnames(data))



## Graphe 2D

plot(data\_acp[, 1], data\_acp[, 2])  
text(data\_acp[, 1], data\_acp[, 2], labels = rownames(data))  
abline(h = 0, v = 0)

