Exam 3

**Question 1**

Clear the environment

#clear the environment  
rm(list=ls(all=TRUE))

\*\* Question 2\*\*

Use the WDI package to download data on female labor force participation for all countries for the years 2010-2015. Save the data frame as female\_lfp. (Hint: you may will need to Google the indicator.)

#load WDI package   
library(WDI)  
  
#download data on FLFP for all countries (2010-2015)  
female\_lfp = WDI (country = "all",  
 indicator = c("SL.TLF.CACT.FE.ZS"), # indicator from web   
 start = 2010, end = 2015, extra = FALSE, cache = NULL)

\*\* Question 3\*\*

Rename variable

#rename female-lfp variable to flfp  
library(dplyr)

##   
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':  
##   
## filter, lag

## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

rename (female\_lfp, flfp= SL.TLF.CACT.FE.ZS)

## iso2c country flfp year  
## 1 Africa Eastern and Southern 65.55910 2015  
## 2 Africa Eastern and Southern 65.37660 2014  
## 3 Africa Eastern and Southern 65.41208 2013  
## 4 Africa Eastern and Southern 65.30822 2012  
## 5 Africa Eastern and Southern 65.44078 2011  
## 6 Africa Eastern and Southern 65.53143 2010  
## 7 Africa Western and Central 54.17086 2015  
## 8 Africa Western and Central 54.49372 2014  
## 9 Africa Western and Central 54.98168 2013  
## 10 Africa Western and Central 56.26046 2012  
## 11 Africa Western and Central 57.57779 2011  
## 12 Africa Western and Central 57.68770 2010  
## 13 1A Arab World 21.38898 2015  
## 14 1A Arab World 21.40292 2014  
## 15 1A Arab World 21.42342 2013  
## 16 1A Arab World 21.09151 2012  
## 17 1A Arab World 20.87528 2011  
## 18 1A Arab World 20.85210 2010  
## 19 S3 Caribbean small states 53.65746 2015  
## 20 S3 Caribbean small states 53.68242 2014  
## 21 S3 Caribbean small states 53.62665 2013  
## 22 S3 Caribbean small states 52.83465 2012  
## 23 S3 Caribbean small states 52.47188 2011  
## 24 S3 Caribbean small states 52.49877 2010  
## 25 B8 Central Europe and the Baltics 48.71026 2015  
## 26 B8 Central Europe and the Baltics 48.72391 2014  
## 27 B8 Central Europe and the Baltics 48.34350 2013  
## 28 B8 Central Europe and the Baltics 48.26968 2012  
## 29 B8 Central Europe and the Baltics 47.86719 2011  
## 30 B8 Central Europe and the Baltics 47.98273 2010  
## 31 V2 Early-demographic dividend 33.49257 2015  
## 32 V2 Early-demographic dividend 33.48172 2014  
## 33 V2 Early-demographic dividend 33.66876 2013  
## 34 V2 Early-demographic dividend 33.85047 2012  
## 35 V2 Early-demographic dividend 34.25722 2011  
## 36 V2 Early-demographic dividend 34.76548 2010  
## 37 Z4 East Asia & Pacific 59.71777 2015  
## 38 Z4 East Asia & Pacific 59.93765 2014  
## 39 Z4 East Asia & Pacific 60.08231 2013  
## 40 Z4 East Asia & Pacific 60.33203 2012  
## 41 Z4 East Asia & Pacific 60.47700 2011  
## 42 Z4 East Asia & Pacific 60.54330 2010  
## 43 4E East Asia & Pacific (excluding high income) 60.75609 2015  
## 44 4E East Asia & Pacific (excluding high income) 61.07481 2014  
## 45 4E East Asia & Pacific (excluding high income) 61.31626 2013  
## 46 4E East Asia & Pacific (excluding high income) 61.67590 2012  
## 47 4E East Asia & Pacific (excluding high income) 61.86120 2011  
## 48 4E East Asia & Pacific (excluding high income) 61.93668 2010  
## 49 T4 East Asia & Pacific (IDA & IBRD countries) 60.58602 2015  
## 50 T4 East Asia & Pacific (IDA & IBRD countries) 60.90792 2014  
## 51 T4 East Asia & Pacific (IDA & IBRD countries) 61.15121 2013  
## 52 T4 East Asia & Pacific (IDA & IBRD countries) 61.51409 2012  
## 53 T4 East Asia & Pacific (IDA & IBRD countries) 61.70020 2011  
## 54 T4 East Asia & Pacific (IDA & IBRD countries) 61.77521 2010  
## 55 XC Euro area 50.35222 2015  
## 56 XC Euro area 50.34255 2014  
## 57 XC Euro area 50.32909 2013  
## 58 XC Euro area 50.18861 2012  
## 59 XC Euro area 49.76684 2011  
## 60 XC Euro area 49.54766 2010  
## 61 Z7 Europe & Central Asia 50.29841 2015  
## 62 Z7 Europe & Central Asia 50.22160 2014  
## 63 Z7 Europe & Central Asia 50.23039 2013  
## 64 Z7 Europe & Central Asia 50.09533 2012  
## 65 Z7 Europe & Central Asia 49.92909 2011  
## 66 Z7 Europe & Central Asia 49.70783 2010  
## 67 7E Europe & Central Asia (excluding high income) 48.72661 2015  
## 68 7E Europe & Central Asia (excluding high income) 48.62642 2014  
## 69 7E Europe & Central Asia (excluding high income) 48.81171 2013  
## 70 7E Europe & Central Asia (excluding high income) 48.72713 2012  
## 71 7E Europe & Central Asia (excluding high income) 48.84512 2011  
## 72 7E Europe & Central Asia (excluding high income) 48.57087 2010  
## 73 T7 Europe & Central Asia (IDA & IBRD countries) 48.70808 2015  
## 74 T7 Europe & Central Asia (IDA & IBRD countries) 48.63205 2014  
## 75 T7 Europe & Central Asia (IDA & IBRD countries) 48.75110 2013  
## 76 T7 Europe & Central Asia (IDA & IBRD countries) 48.67870 2012  
## 77 T7 Europe & Central Asia (IDA & IBRD countries) 48.75597 2011  
## 78 T7 Europe & Central Asia (IDA & IBRD countries) 48.51984 2010  
## 79 EU European Union 50.16774 2015  
## 80 EU European Union 50.17790 2014  
## 81 EU European Union 50.08075 2013  
## 82 EU European Union 49.94722 2012  
## 83 EU European Union 49.54133 2011  
## 84 EU European Union 49.38344 2010  
## 85 F1 Fragile and conflict affected situations 47.67344 2015  
## 86 F1 Fragile and conflict affected situations 47.82803 2014  
## 87 F1 Fragile and conflict affected situations 48.07908 2013  
## 88 F1 Fragile and conflict affected situations 48.73848 2012  
## 89 F1 Fragile and conflict affected situations 49.63355 2011  
## 90 F1 Fragile and conflict affected situations 49.86986 2010  
## 91 XE Heavily indebted poor countries (HIPC) 61.38072 2015  
## 92 XE Heavily indebted poor countries (HIPC) 61.51720 2014  
## 93 XE Heavily indebted poor countries (HIPC) 61.66517 2013  
## 94 XE Heavily indebted poor countries (HIPC) 61.79634 2012  
## 95 XE Heavily indebted poor countries (HIPC) 62.23911 2011  
## 96 XE Heavily indebted poor countries (HIPC) 62.59330 2010  
## 97 XD High income 52.42744 2015  
## 98 XD High income 52.35621 2014  
## 99 XD High income 52.22704 2013  
## 100 XD High income 52.16867 2012  
## 101 XD High income 51.99184 2011  
## 102 XD High income 52.03860 2010  
## 103 XF IBRD only 45.50715 2015  
## 104 XF IBRD only 45.73780 2014  
## 105 XF IBRD only 46.09024 2013  
## 106 XF IBRD only 46.39055 2012  
## 107 XF IBRD only 46.76882 2011  
## 108 XF IBRD only 47.24809 2010  
## 109 ZT IDA & IBRD total 46.48421 2015  
## 110 ZT IDA & IBRD total 46.62166 2014  
## 111 ZT IDA & IBRD total 46.88936 2013  
## 112 ZT IDA & IBRD total 47.16848 2012  
## 113 ZT IDA & IBRD total 47.53247 2011  
## 114 ZT IDA & IBRD total 47.90940 2010  
## 115 XH IDA blend 42.78334 2015  
## 116 XH IDA blend 42.57364 2014  
## 117 XH IDA blend 42.59316 2013  
## 118 XH IDA blend 43.22590 2012  
## 119 XH IDA blend 43.90687 2011  
## 120 XH IDA blend 43.69711 2010  
## 121 XI IDA only 53.86792 2015  
## 122 XI IDA only 53.72556 2014  
## 123 XI IDA only 53.69605 2013  
## 124 XI IDA only 53.73903 2012  
## 125 XI IDA only 53.92287 2011  
## 126 XI IDA only 54.03113 2010  
## 127 XG IDA total 50.18386 2015  
## 128 XG IDA total 50.01737 2014  
## 129 XG IDA total 50.00307 2013  
## 130 XG IDA total 50.24150 2012  
## 131 XG IDA total 50.59003 2011  
## 132 XG IDA total 50.59362 2010  
## 133 V3 Late-demographic dividend 59.42667 2015  
## 134 V3 Late-demographic dividend 59.62173 2014  
## 135 V3 Late-demographic dividend 59.83831 2013  
## 136 V3 Late-demographic dividend 60.04675 2012  
## 137 V3 Late-demographic dividend 60.10756 2011  
## 138 V3 Late-demographic dividend 60.24059 2010  
## 139 ZJ Latin America & Caribbean 51.14027 2015  
## 140 ZJ Latin America & Caribbean 50.88417 2014  
## 141 ZJ Latin America & Caribbean 51.17063 2013  
## 142 ZJ Latin America & Caribbean 51.28142 2012  
## 143 ZJ Latin America & Caribbean 50.44851 2011  
## 144 ZJ Latin America & Caribbean 50.77462 2010  
## 145 XJ Latin America & Caribbean (excluding high income) 51.25060 2015  
## 146 XJ Latin America & Caribbean (excluding high income) 50.97574 2014  
## 147 XJ Latin America & Caribbean (excluding high income) 51.30136 2013  
## 148 XJ Latin America & Caribbean (excluding high income) 51.42601 2012  
## 149 XJ Latin America & Caribbean (excluding high income) 50.55843 2011  
## 150 XJ Latin America & Caribbean (excluding high income) 50.96336 2010  
## 151 T2 Latin America & the Caribbean (IDA & IBRD countries) 51.43401 2015  
## 152 T2 Latin America & the Caribbean (IDA & IBRD countries) 51.17208 2014  
## 153 T2 Latin America & the Caribbean (IDA & IBRD countries) 51.46361 2013  
## 154 T2 Latin America & the Caribbean (IDA & IBRD countries) 51.57828 2012  
## 155 T2 Latin America & the Caribbean (IDA & IBRD countries) 50.72082 2011  
## 156 T2 Latin America & the Caribbean (IDA & IBRD countries) 51.05849 2010  
## 157 XL Least developed countries: UN classification 55.58204 2015  
## 158 XL Least developed countries: UN classification 55.45553 2014  
## 159 XL Least developed countries: UN classification 55.49846 2013  
## 160 XL Least developed countries: UN classification 55.61632 2012  
## 161 XL Least developed countries: UN classification 55.82687 2011  
## 162 XL Least developed countries: UN classification 55.93398 2010  
## 163 XO Low & middle income 46.54864 2015  
## 164 XO Low & middle income 46.68512 2014  
## 165 XO Low & middle income 46.96240 2013  
## 166 XO Low & middle income 47.24526 2012  
## 167 XO Low & middle income 47.61597 2011  
## 168 XO Low & middle income 48.00104 2010  
## 169 XM Low income 57.74867 2015  
## 170 XM Low income 57.69538 2014  
## 171 XM Low income 57.80150 2013  
## 172 XM Low income 57.91574 2012  
## 173 XM Low income 58.21069 2011  
## 174 XM Low income 58.47127 2010  
## 175 XN Lower middle income 35.17860 2015  
## 176 XN Lower middle income 35.29166 2014  
## 177 XN Lower middle income 35.49063 2013  
## 178 XN Lower middle income 35.74105 2012  
## 179 XN Lower middle income 36.41758 2011  
## 180 XN Lower middle income 37.00211 2010  
## 181 ZQ Middle East & North Africa 20.20963 2015  
## 182 ZQ Middle East & North Africa 19.94000 2014  
## 183 ZQ Middle East & North Africa 20.06016 2013  
## 184 ZQ Middle East & North Africa 19.88877 2012  
## 185 ZQ Middle East & North Africa 19.80171 2011  
## 186 ZQ Middle East & North Africa 19.91662 2010  
## 187 XQ Middle East & North Africa (excluding high income) 17.98387 2015  
## 188 XQ Middle East & North Africa (excluding high income) 17.84594 2014  
## 189 XQ Middle East & North Africa (excluding high income) 18.10791 2013  
## 190 XQ Middle East & North Africa (excluding high income) 17.98727 2012  
## 191 XQ Middle East & North Africa (excluding high income) 18.04267 2011  
## 192 XQ Middle East & North Africa (excluding high income) 18.31910 2010  
## 193 T3 Middle East & North Africa (IDA & IBRD countries) 17.98759 2015  
## 194 T3 Middle East & North Africa (IDA & IBRD countries) 17.86316 2014  
## 195 T3 Middle East & North Africa (IDA & IBRD countries) 18.13478 2013  
## 196 T3 Middle East & North Africa (IDA & IBRD countries) 18.00924 2012  
## 197 T3 Middle East & North Africa (IDA & IBRD countries) 18.06960 2011  
## 198 T3 Middle East & North Africa (IDA & IBRD countries) 18.36272 2010  
## 199 XP Middle income 45.62153 2015  
## 200 XP Middle income 45.78791 2014  
## 201 XP Middle income 46.09229 2013  
## 202 XP Middle income 46.40097 2012  
## 203 XP Middle income 46.78952 2011  
## 204 XP Middle income 47.19580 2010  
## 205 XU North America 56.35800 2015  
## 206 XU North America 56.63268 2014  
## 207 XU North America 56.85411 2013  
## 208 XU North America 57.29273 2012  
## 209 XU North America 57.41492 2011  
## 210 XU North America 57.95135 2010  
## 211 XY Not classified NA 2015  
## 212 XY Not classified NA 2014  
## 213 XY Not classified NA 2013  
## 214 XY Not classified NA 2012  
## 215 XY Not classified NA 2011  
## 216 XY Not classified NA 2010  
## 217 OE OECD members 51.38877 2015  
## 218 OE OECD members 51.25996 2014  
## 219 OE OECD members 51.25463 2013  
## 220 OE OECD members 51.16190 2012  
## 221 OE OECD members 50.86057 2011  
## 222 OE OECD members 50.81910 2010  
## 223 S4 Other small states 54.01928 2015  
## 224 S4 Other small states 53.61443 2014  
## 225 S4 Other small states 53.38291 2013  
## 226 S4 Other small states 52.58332 2012  
## 227 S4 Other small states 51.98067 2011  
## 228 S4 Other small states 51.64065 2010  
## 229 S2 Pacific island small states 53.48993 2015  
## 230 S2 Pacific island small states 53.90166 2014  
## 231 S2 Pacific island small states 54.19406 2013  
## 232 S2 Pacific island small states 54.52214 2012  
## 233 S2 Pacific island small states 54.91456 2011  
## 234 S2 Pacific island small states 53.98340 2010  
## 235 V4 Post-demographic dividend 52.94392 2015  
## 236 V4 Post-demographic dividend 52.87118 2014  
## 237 V4 Post-demographic dividend 52.81501 2013  
## 238 V4 Post-demographic dividend 52.70080 2012  
## 239 V4 Post-demographic dividend 52.56954 2011  
## 240 V4 Post-demographic dividend 52.65093 2010  
## 241 V1 Pre-demographic dividend 56.24289 2015  
## 242 V1 Pre-demographic dividend 56.33985 2014  
## 243 V1 Pre-demographic dividend 56.58467 2013  
## 244 V1 Pre-demographic dividend 57.21137 2012  
## 245 V1 Pre-demographic dividend 58.01566 2011  
## 246 V1 Pre-demographic dividend 58.22140 2010  
## 247 S1 Small states 53.91569 2015  
## 248 S1 Small states 53.64384 2014  
## 249 S1 Small states 53.47756 2013  
## 250 S1 Small states 52.74012 2012  
## 251 S1 Small states 52.24334 2011  
## 252 S1 Small states 51.95246 2010  
## 253 8S South Asia 24.13964 2015  
## 254 8S South Asia 24.24497 2014  
## 255 8S South Asia 24.47304 2013  
## 256 8S South Asia 24.68026 2012  
## 257 8S South Asia 25.66537 2011  
## 258 8S South Asia 26.68046 2010  
## 259 T5 South Asia (IDA & IBRD) 24.13964 2015  
## 260 T5 South Asia (IDA & IBRD) 24.24497 2014  
## 261 T5 South Asia (IDA & IBRD) 24.47304 2013  
## 262 T5 South Asia (IDA & IBRD) 24.68026 2012  
## 263 T5 South Asia (IDA & IBRD) 25.66537 2011  
## 264 T5 South Asia (IDA & IBRD) 26.68046 2010  
## 265 ZG Sub-Saharan Africa 61.07772 2015  
## 266 ZG Sub-Saharan Africa 61.08938 2014  
## 267 ZG Sub-Saharan Africa 61.29749 2013  
## 268 ZG Sub-Saharan Africa 61.73353 2012  
## 269 ZG Sub-Saharan Africa 62.32938 2011  
## 270 ZG Sub-Saharan Africa 62.42335 2010  
## 271 ZF Sub-Saharan Africa (excluding high income) 61.07772 2015  
## 272 ZF Sub-Saharan Africa (excluding high income) 61.08938 2014  
## 273 ZF Sub-Saharan Africa (excluding high income) 61.29749 2013  
## 274 ZF Sub-Saharan Africa (excluding high income) 61.73353 2012  
## 275 ZF Sub-Saharan Africa (excluding high income) 62.32938 2011  
## 276 ZF Sub-Saharan Africa (excluding high income) 62.42335 2010  
## 277 T6 Sub-Saharan Africa (IDA & IBRD countries) 61.07772 2015  
## 278 T6 Sub-Saharan Africa (IDA & IBRD countries) 61.08938 2014  
## 279 T6 Sub-Saharan Africa (IDA & IBRD countries) 61.29749 2013  
## 280 T6 Sub-Saharan Africa (IDA & IBRD countries) 61.73353 2012  
## 281 T6 Sub-Saharan Africa (IDA & IBRD countries) 62.32938 2011  
## 282 T6 Sub-Saharan Africa (IDA & IBRD countries) 62.42335 2010  
## 283 XT Upper middle income 56.89782 2015  
## 284 XT Upper middle income 57.00951 2014  
## 285 XT Upper middle income 57.31543 2013  
## 286 XT Upper middle income 57.57451 2012  
## 287 XT Upper middle income 57.55462 2011  
## 288 XT Upper middle income 57.67087 2010  
## 289 1W World 47.63357 2015  
## 290 1W World 47.73904 2014  
## 291 1W World 47.94740 2013  
## 292 1W World 48.17276 2012  
## 293 1W World 48.44614 2011  
## 294 1W World 48.77349 2010  
## 295 AF Afghanistan 18.76000 2015  
## 296 AF Afghanistan 17.74000 2014  
## 297 AF Afghanistan 16.77000 2013  
## 298 AF Afghanistan 15.85000 2012  
## 299 AF Afghanistan 15.44000 2011  
## 300 AF Afghanistan 15.13000 2010  
## 301 AL Albania 46.14000 2015  
## 302 AL Albania 43.21000 2014  
## 303 AL Albania 43.91000 2013  
## 304 AL Albania 48.29000 2012  
## 305 AL Albania 52.95000 2011  
## 306 AL Albania 45.76000 2010  
## 307 DZ Algeria 16.06000 2015  
## 308 DZ Algeria 15.33000 2014  
## 309 DZ Algeria 16.87000 2013  
## 310 DZ Algeria 16.15000 2012  
## 311 DZ Algeria 15.23000 2011  
## 312 DZ Algeria 14.37000 2010  
## 313 AS American Samoa NA 2015  
## 314 AS American Samoa NA 2014  
## 315 AS American Samoa NA 2013  
## 316 AS American Samoa NA 2012  
## 317 AS American Samoa NA 2011  
## 318 AS American Samoa NA 2010  
## 319 AD Andorra NA 2015  
## 320 AD Andorra NA 2014  
## 321 AD Andorra NA 2013  
## 322 AD Andorra NA 2012  
## 323 AD Andorra NA 2011  
## 324 AD Andorra NA 2010  
## 325 AO Angola 76.07000 2015  
## 326 AO Angola 76.03000 2014  
## 327 AO Angola 75.98000 2013  
## 328 AO Angola 75.92000 2012  
## 329 AO Angola 75.85000 2011  
## 330 AO Angola 75.77000 2010  
## 331 AG Antigua and Barbuda NA 2015  
## 332 AG Antigua and Barbuda NA 2014  
## 333 AG Antigua and Barbuda NA 2013  
## 334 AG Antigua and Barbuda NA 2012  
## 335 AG Antigua and Barbuda NA 2011  
## 336 AG Antigua and Barbuda NA 2010  
## 337 AR Argentina 48.02000 2015  
## 338 AR Argentina 47.32000 2014  
## 339 AR Argentina 47.94000 2013  
## 340 AR Argentina 48.32000 2012  
## 341 AR Argentina 48.23000 2011  
## 342 AR Argentina 47.95000 2010  
## 343 AM Armenia 48.78000 2015  
## 344 AM Armenia 49.54000 2014  
## 345 AM Armenia 50.20000 2013  
## 346 AM Armenia 49.85000 2012  
## 347 AM Armenia 49.46000 2011  
## 348 AM Armenia 46.93000 2010  
## 349 AW Aruba NA 2015  
## 350 AW Aruba NA 2014  
## 351 AW Aruba NA 2013  
## 352 AW Aruba NA 2012  
## 353 AW Aruba NA 2011  
## 354 AW Aruba NA 2010  
## 355 AU Australia 59.19000 2015  
## 356 AU Australia 58.76000 2014  
## 357 AU Australia 58.80000 2013  
## 358 AU Australia 58.91000 2012  
## 359 AU Australia 59.03000 2011  
## 360 AU Australia 58.77000 2010  
## 361 AT Austria 54.54000 2015  
## 362 AT Austria 54.56000 2014  
## 363 AT Austria 54.60000 2013  
## 364 AT Austria 54.34000 2012  
## 365 AT Austria 53.84000 2011  
## 366 AT Austria 53.51000 2010  
## 367 AZ Azerbaijan 62.52000 2015  
## 368 AZ Azerbaijan 61.92000 2014  
## 369 AZ Azerbaijan 61.32000 2013  
## 370 AZ Azerbaijan 61.10000 2012  
## 371 AZ Azerbaijan 61.11000 2011  
## 372 AZ Azerbaijan 61.75000 2010  
## 373 BS Bahamas, The 69.93000 2015  
## 374 BS Bahamas, The 69.82000 2014  
## 375 BS Bahamas, The 69.66000 2013  
## 376 BS Bahamas, The 69.71000 2012  
## 377 BS Bahamas, The 69.48000 2011  
## 378 BS Bahamas, The 69.49000 2010  
## 379 BH Bahrain 43.80000 2015  
## 380 BH Bahrain 43.62000 2014  
## 381 BH Bahrain 43.41000 2013  
## 382 BH Bahrain 43.20000 2012  
## 383 BH Bahrain 43.01000 2011  
## 384 BH Bahrain 43.76000 2010  
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## 386 BD Bangladesh 31.85000 2014  
## 387 BD Bangladesh 31.34000 2013  
## 388 BD Bangladesh 30.84000 2012  
## 389 BD Bangladesh 30.34000 2011  
## 390 BD Bangladesh 29.85000 2010  
## 391 BB Barbados 61.56000 2015  
## 392 BB Barbados 61.47000 2014  
## 393 BB Barbados 62.77000 2013  
## 394 BB Barbados 61.55000 2012  
## 395 BB Barbados 62.71000 2011  
## 396 BB Barbados 62.87000 2010  
## 397 BY Belarus 58.64000 2015  
## 398 BY Belarus 58.54000 2014  
## 399 BY Belarus 58.37000 2013  
## 400 BY Belarus 58.15000 2012  
## 401 BY Belarus 57.87000 2011  
## 402 BY Belarus 57.54000 2010  
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## 404 BE Belgium 48.01000 2014  
## 405 BE Belgium 47.59000 2013  
## 406 BE Belgium 46.89000 2012  
## 407 BE Belgium 46.81000 2011  
## 408 BE Belgium 47.49000 2010  
## 409 BZ Belize 48.36000 2015  
## 410 BZ Belize 47.78000 2014  
## 411 BZ Belize 47.04000 2013  
## 412 BZ Belize 46.80000 2012  
## 413 BZ Belize 46.58000 2011  
## 414 BZ Belize 46.37000 2010  
## 415 BJ Benin 68.37000 2015  
## 416 BJ Benin 68.27000 2014  
## 417 BJ Benin 68.20000 2013  
## 418 BJ Benin 68.14000 2012  
## 419 BJ Benin 68.09000 2011  
## 420 BJ Benin 69.22000 2010  
## 421 BM Bermuda NA 2015  
## 422 BM Bermuda NA 2014  
## 423 BM Bermuda NA 2013  
## 424 BM Bermuda NA 2012  
## 425 BM Bermuda NA 2011  
## 426 BM Bermuda NA 2010  
## 427 BT Bhutan 58.27000 2015  
## 428 BT Bhutan 53.86000 2014  
## 429 BT Bhutan 57.05000 2013  
## 430 BT Bhutan 62.24000 2012  
## 431 BT Bhutan 61.23000 2011  
## 432 BT Bhutan 63.52000 2010  
## 433 BO Bolivia 54.44000 2015  
## 434 BO Bolivia 60.82000 2014  
## 435 BO Bolivia 58.74000 2013  
## 436 BO Bolivia 57.87000 2012  
## 437 BO Bolivia 61.59000 2011  
## 438 BO Bolivia 61.97000 2010  
## 439 BA Bosnia and Herzegovina 36.25000 2015  
## 440 BA Bosnia and Herzegovina 36.37000 2014  
## 441 BA Bosnia and Herzegovina 34.74000 2013  
## 442 BA Bosnia and Herzegovina 34.68000 2012  
## 443 BA Bosnia and Herzegovina 34.45000 2011  
## 444 BA Bosnia and Herzegovina 34.31000 2010  
## 445 BW Botswana 64.93000 2015  
## 446 BW Botswana 64.84000 2014  
## 447 BW Botswana 64.75000 2013  
## 448 BW Botswana 61.33000 2012  
## 449 BW Botswana 57.66000 2011  
## 450 BW Botswana 53.80000 2010  
## 451 BR Brazil 53.34000 2015  
## 452 BR Brazil 52.81000 2014  
## 453 BR Brazil 52.93000 2013  
## 454 BR Brazil 53.02000 2012  
## 455 BR Brazil 52.12000 2011  
## 456 BR Brazil 53.52000 2010  
## 457 VG British Virgin Islands NA 2015  
## 458 VG British Virgin Islands NA 2014  
## 459 VG British Virgin Islands NA 2013  
## 460 VG British Virgin Islands NA 2012  
## 461 VG British Virgin Islands NA 2011  
## 462 VG British Virgin Islands NA 2010  
## 463 BN Brunei Darussalam 58.00000 2015  
## 464 BN Brunei Darussalam 57.84000 2014  
## 465 BN Brunei Darussalam 57.67000 2013  
## 466 BN Brunei Darussalam 57.47000 2012  
## 467 BN Brunei Darussalam 57.24000 2011  
## 468 BN Brunei Darussalam 56.96000 2010  
## 469 BG Bulgaria 48.64000 2015  
## 470 BG Bulgaria 48.63000 2014  
## 471 BG Bulgaria 48.53000 2013  
## 472 BG Bulgaria 47.83000 2012  
## 473 BG Bulgaria 47.22000 2011  
## 474 BG Bulgaria 47.69000 2010  
## 475 BF Burkina Faso 58.28000 2015  
## 476 BF Burkina Faso 58.22000 2014  
## 477 BF Burkina Faso 58.58000 2013  
## 478 BF Burkina Faso 58.95000 2012  
## 479 BF Burkina Faso 59.32000 2011  
## 480 BF Burkina Faso 59.71000 2010  
## 481 BI Burundi 80.02000 2015  
## 482 BI Burundi 79.75000 2014  
## 483 BI Burundi 79.85000 2013  
## 484 BI Burundi 79.93000 2012  
## 485 BI Burundi 80.02000 2011  
## 486 BI Burundi 80.16000 2010  
## 487 CV Cabo Verde 51.20000 2015  
## 488 CV Cabo Verde 50.44000 2014  
## 489 CV Cabo Verde 49.60000 2013  
## 490 CV Cabo Verde 48.71000 2012  
## 491 CV Cabo Verde 47.85000 2011  
## 492 CV Cabo Verde 47.05000 2010  
## 493 KH Cambodia 74.29000 2015  
## 494 KH Cambodia 74.82000 2014  
## 495 KH Cambodia 75.16000 2013  
## 496 KH Cambodia 79.00000 2012  
## 497 KH Cambodia 82.44000 2011  
## 498 KH Cambodia 81.77000 2010  
## 499 CM Cameroon 71.10000 2015  
## 500 CM Cameroon 71.02000 2014  
## 501 CM Cameroon 70.93000 2013  
## 502 CM Cameroon 70.83000 2012  
## 503 CM Cameroon 70.73000 2011  
## 504 CM Cameroon 70.64000 2010  
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## 1095 MA Morocco 24.60000 2013  
## 1096 MA Morocco 24.79000 2012  
## 1097 MA Morocco 25.54000 2011  
## 1098 MA Morocco 25.57000 2010  
## 1099 MZ Mozambique 77.76000 2015  
## 1100 MZ Mozambique 78.90000 2014  
## 1101 MZ Mozambique 79.97000 2013  
## 1102 MZ Mozambique 80.98000 2012  
## 1103 MZ Mozambique 81.93000 2011  
## 1104 MZ Mozambique 82.83000 2010  
## 1105 MM Myanmar 51.86000 2015  
## 1106 MM Myanmar 52.24000 2014  
## 1107 MM Myanmar 52.65000 2013  
## 1108 MM Myanmar 53.07000 2012  
## 1109 MM Myanmar 53.45000 2011  
## 1110 MM Myanmar 53.77000 2010  
## 1111 NA Namibia 56.35000 2015  
## 1112 NA Namibia 57.45000 2014  
## 1113 NA Namibia 58.12000 2013  
## 1114 NA Namibia 53.79000 2012  
## 1115 NA Namibia 53.18000 2011  
## 1116 NA Namibia 52.59000 2010  
## 1117 NR Nauru NA 2015  
## 1118 NR Nauru NA 2014  
## 1119 NR Nauru NA 2013  
## 1120 NR Nauru NA 2012  
## 1121 NR Nauru NA 2011  
## 1122 NR Nauru NA 2010  
## 1123 NP Nepal 80.37000 2015  
## 1124 NP Nepal 80.14000 2014  
## 1125 NP Nepal 79.90000 2013  
## 1126 NP Nepal 79.67000 2012  
## 1127 NP Nepal 79.50000 2011  
## 1128 NP Nepal 79.43000 2010  
## 1129 NL Netherlands 58.20000 2015  
## 1130 NL Netherlands 57.81000 2014  
## 1131 NL Netherlands 58.54000 2013  
## 1132 NL Netherlands 58.63000 2012  
## 1133 NL Netherlands 58.09000 2011  
## 1134 NL Netherlands 58.03000 2010  
## 1135 NC New Caledonia 58.72000 2015  
## 1136 NC New Caledonia 59.12000 2014  
## 1137 NC New Caledonia 59.62000 2013  
## 1138 NC New Caledonia 60.17000 2012  
## 1139 NC New Caledonia 60.66000 2011  
## 1140 NC New Caledonia 61.04000 2010  
## 1141 NZ New Zealand 62.85000 2015  
## 1142 NZ New Zealand 62.90000 2014  
## 1143 NZ New Zealand 62.02000 2013  
## 1144 NZ New Zealand 61.57000 2012  
## 1145 NZ New Zealand 61.44000 2011  
## 1146 NZ New Zealand 60.97000 2010  
## 1147 NI Nicaragua 49.51000 2015  
## 1148 NI Nicaragua 49.01000 2014  
## 1149 NI Nicaragua 48.54000 2013  
## 1150 NI Nicaragua 48.06000 2012  
## 1151 NI Nicaragua 47.58000 2011  
## 1152 NI Nicaragua 47.10000 2010  
## 1153 NE Niger 60.99000 2015  
## 1154 NE Niger 61.04000 2014  
## 1155 NE Niger 63.62000 2013  
## 1156 NE Niger 66.13000 2012  
## 1157 NE Niger 68.54000 2011  
## 1158 NE Niger 68.60000 2010  
## 1159 NG Nigeria 48.85000 2015  
## 1160 NG Nigeria 49.57000 2014  
## 1161 NG Nigeria 50.24000 2013  
## 1162 NG Nigeria 52.70000 2012  
## 1163 NG Nigeria 55.25000 2011  
## 1164 NG Nigeria 55.26000 2010  
## 1165 MK North Macedonia 43.53000 2015  
## 1166 MK North Macedonia 43.92000 2014  
## 1167 MK North Macedonia 44.37000 2013  
## 1168 MK North Macedonia 43.01000 2012  
## 1169 MK North Macedonia 43.44000 2011  
## 1170 MK North Macedonia 42.79000 2010  
## 1171 MP Northern Mariana Islands NA 2015  
## 1172 MP Northern Mariana Islands NA 2014  
## 1173 MP Northern Mariana Islands NA 2013  
## 1174 MP Northern Mariana Islands NA 2012  
## 1175 MP Northern Mariana Islands NA 2011  
## 1176 MP Northern Mariana Islands NA 2010  
## 1177 NO Norway 61.33000 2015  
## 1178 NO Norway 61.35000 2014  
## 1179 NO Norway 61.56000 2013  
## 1180 NO Norway 61.60000 2012  
## 1181 NO Norway 61.64000 2011  
## 1182 NO Norway 61.78000 2010  
## 1183 OM Oman 30.30000 2015  
## 1184 OM Oman 29.51000 2014  
## 1185 OM Oman 28.75000 2013  
## 1186 OM Oman 28.06000 2012  
## 1187 OM Oman 27.49000 2011  
## 1188 OM Oman 27.03000 2010  
## 1189 PK Pakistan 23.86000 2015  
## 1190 PK Pakistan 22.92000 2014  
## 1191 PK Pakistan 22.58000 2013  
## 1192 PK Pakistan 22.31000 2012  
## 1193 PK Pakistan 22.07000 2011  
## 1194 PK Pakistan 21.72000 2010  
## 1195 PW Palau NA 2015  
## 1196 PW Palau NA 2014  
## 1197 PW Palau NA 2013  
## 1198 PW Palau NA 2012  
## 1199 PW Palau NA 2011  
## 1200 PW Palau NA 2010  
## 1201 PA Panama 50.71000 2015  
## 1202 PA Panama 49.52000 2014  
## 1203 PA Panama 49.49000 2013  
## 1204 PA Panama 47.96000 2012  
## 1205 PA Panama 45.42000 2011  
## 1206 PA Panama 47.09000 2010  
## 1207 PG Papua New Guinea 46.57000 2015  
## 1208 PG Papua New Guinea 46.80000 2014  
## 1209 PG Papua New Guinea 47.16000 2013  
## 1210 PG Papua New Guinea 47.20000 2012  
## 1211 PG Papua New Guinea 47.27000 2011  
## 1212 PG Papua New Guinea 47.20000 2010  
## 1213 PY Paraguay 55.94000 2015  
## 1214 PY Paraguay 55.99000 2014  
## 1215 PY Paraguay 58.75000 2013  
## 1216 PY Paraguay 60.29000 2012  
## 1217 PY Paraguay 55.43000 2011  
## 1218 PY Paraguay 53.85000 2010  
## 1219 PE Peru 67.99000 2015  
## 1220 PE Peru 69.60000 2014  
## 1221 PE Peru 70.60000 2013  
## 1222 PE Peru 71.19000 2012  
## 1223 PE Peru 71.48000 2011  
## 1224 PE Peru 72.19000 2010  
## 1225 PH Philippines 49.26000 2015  
## 1226 PH Philippines 49.52000 2014  
## 1227 PH Philippines 48.75000 2013  
## 1228 PH Philippines 48.82000 2012  
## 1229 PH Philippines 49.25000 2011  
## 1230 PH Philippines 48.48000 2010  
## 1231 PL Poland 48.76000 2015  
## 1232 PL Poland 48.97000 2014  
## 1233 PL Poland 48.63000 2013  
## 1234 PL Poland 48.67000 2012  
## 1235 PL Poland 48.33000 2011  
## 1236 PL Poland 48.27000 2010  
## 1237 PT Portugal 53.75000 2015  
## 1238 PT Portugal 53.77000 2014  
## 1239 PT Portugal 54.11000 2013  
## 1240 PT Portugal 54.64000 2012  
## 1241 PT Portugal 54.60000 2011  
## 1242 PT Portugal 55.81000 2010  
## 1243 PR Puerto Rico 32.52000 2015  
## 1244 PR Puerto Rico 33.18000 2014  
## 1245 PR Puerto Rico 33.80000 2013  
## 1246 PR Puerto Rico 34.38000 2012  
## 1247 PR Puerto Rico 34.95000 2011  
## 1248 PR Puerto Rico 35.50000 2010  
## 1249 QA Qatar 58.94000 2015  
## 1250 QA Qatar 57.41000 2014  
## 1251 QA Qatar 55.81000 2013  
## 1252 QA Qatar 54.28000 2012  
## 1253 QA Qatar 52.89000 2011  
## 1254 QA Qatar 51.44000 2010  
## 1255 RO Romania 45.19000 2015  
## 1256 RO Romania 46.15000 2014  
## 1257 RO Romania 46.01000 2013  
## 1258 RO Romania 46.27000 2012  
## 1259 RO Romania 46.13000 2011  
## 1260 RO Romania 46.31000 2010  
## 1261 RU Russian Federation 55.49000 2015  
## 1262 RU Russian Federation 55.67000 2014  
## 1263 RU Russian Federation 55.75000 2013  
## 1264 RU Russian Federation 56.07000 2012  
## 1265 RU Russian Federation 56.13000 2011  
## 1266 RU Russian Federation 55.88000 2010  
## 1267 RW Rwanda 83.88000 2015  
## 1268 RW Rwanda 83.85000 2014  
## 1269 RW Rwanda 83.94000 2013  
## 1270 RW Rwanda 84.01000 2012  
## 1271 RW Rwanda 84.06000 2011  
## 1272 RW Rwanda 84.08000 2010  
## 1273 WS Samoa 31.68000 2015  
## 1274 WS Samoa 31.76000 2014  
## 1275 WS Samoa 31.72000 2013  
## 1276 WS Samoa 31.64000 2012  
## 1277 WS Samoa 31.47000 2011  
## 1278 WS Samoa 31.49000 2010  
## 1279 SM San Marino NA 2015  
## 1280 SM San Marino NA 2014  
## 1281 SM San Marino NA 2013  
## 1282 SM San Marino NA 2012  
## 1283 SM San Marino NA 2011  
## 1284 SM San Marino NA 2010  
## 1285 ST Sao Tome and Principe 41.67000 2015  
## 1286 ST Sao Tome and Principe 41.69000 2014  
## 1287 ST Sao Tome and Principe 41.72000 2013  
## 1288 ST Sao Tome and Principe 41.70000 2012  
## 1289 ST Sao Tome and Principe 41.62000 2011  
## 1290 ST Sao Tome and Principe 41.48000 2010  
## 1291 SA Saudi Arabia 22.22000 2015  
## 1292 SA Saudi Arabia 20.83000 2014  
## 1293 SA Saudi Arabia 20.40000 2013  
## 1294 SA Saudi Arabia 20.42000 2012  
## 1295 SA Saudi Arabia 19.63000 2011  
## 1296 SA Saudi Arabia 18.28000 2010  
## 1297 SN Senegal 34.70000 2015  
## 1298 SN Senegal 34.62000 2014  
## 1299 SN Senegal 34.54000 2013  
## 1300 SN Senegal 34.46000 2012  
## 1301 SN Senegal 34.38000 2011  
## 1302 SN Senegal 34.30000 2010  
## 1303 RS Serbia 44.21000 2015  
## 1304 RS Serbia 44.50000 2014  
## 1305 RS Serbia 44.02000 2013  
## 1306 RS Serbia 43.09000 2012  
## 1307 RS Serbia 42.71000 2011  
## 1308 RS Serbia 42.93000 2010  
## 1309 SC Seychelles NA 2015  
## 1310 SC Seychelles NA 2014  
## 1311 SC Seychelles NA 2013  
## 1312 SC Seychelles NA 2012  
## 1313 SC Seychelles NA 2011  
## 1314 SC Seychelles NA 2010  
## 1315 SL Sierra Leone 57.06000 2015  
## 1316 SL Sierra Leone 56.82000 2014  
## 1317 SL Sierra Leone 57.54000 2013  
## 1318 SL Sierra Leone 58.26000 2012  
## 1319 SL Sierra Leone 59.00000 2011  
## 1320 SL Sierra Leone 59.75000 2010  
## 1321 SG Singapore 62.57000 2015  
## 1322 SG Singapore 61.37000 2014  
## 1323 SG Singapore 60.13000 2013  
## 1324 SG Singapore 59.80000 2012  
## 1325 SG Singapore 58.83000 2011  
## 1326 SG Singapore 58.08000 2010  
## 1327 SX Sint Maarten (Dutch part) NA 2015  
## 1328 SX Sint Maarten (Dutch part) NA 2014  
## 1329 SX Sint Maarten (Dutch part) NA 2013  
## 1330 SX Sint Maarten (Dutch part) NA 2012  
## 1331 SX Sint Maarten (Dutch part) NA 2011  
## 1332 SX Sint Maarten (Dutch part) NA 2010  
## 1333 SK Slovak Republic 52.00000 2015  
## 1334 SK Slovak Republic 51.12000 2014  
## 1335 SK Slovak Republic 51.08000 2013  
## 1336 SK Slovak Republic 50.73000 2012  
## 1337 SK Slovak Republic 50.21000 2011  
## 1338 SK Slovak Republic 50.64000 2010  
## 1339 SI Slovenia 52.02000 2015  
## 1340 SI Slovenia 52.32000 2014  
## 1341 SI Slovenia 51.76000 2013  
## 1342 SI Slovenia 52.28000 2012  
## 1343 SI Slovenia 52.31000 2011  
## 1344 SI Slovenia 53.13000 2010  
## 1345 SB Solomon Islands 82.25000 2015  
## 1346 SB Solomon Islands 82.27000 2014  
## 1347 SB Solomon Islands 82.27000 2013  
## 1348 SB Solomon Islands 82.30000 2012  
## 1349 SB Solomon Islands 82.38000 2011  
## 1350 SB Solomon Islands 82.73000 2010  
## 1351 SO Somalia 21.44000 2015  
## 1352 SO Somalia 21.25000 2014  
## 1353 SO Somalia 21.04000 2013  
## 1354 SO Somalia 20.86000 2012  
## 1355 SO Somalia 20.76000 2011  
## 1356 SO Somalia 20.79000 2010  
## 1357 ZA South Africa 48.57000 2015  
## 1358 ZA South Africa 47.24000 2014  
## 1359 ZA South Africa 46.91000 2013  
## 1360 ZA South Africa 45.83000 2012  
## 1361 ZA South Africa 45.46000 2011  
## 1362 ZA South Africa 44.89000 2010  
## 1363 SS South Sudan 70.69000 2015  
## 1364 SS South Sudan 70.66000 2014  
## 1365 SS South Sudan 70.64000 2013  
## 1366 SS South Sudan 70.63000 2012  
## 1367 SS South Sudan 70.63000 2011  
## 1368 SS South Sudan 70.63000 2010  
## 1369 ES Spain 52.60000 2015  
## 1370 ES Spain 52.63000 2014  
## 1371 ES Spain 52.85000 2013  
## 1372 ES Spain 52.86000 2012  
## 1373 ES Spain 52.33000 2011  
## 1374 ES Spain 51.74000 2010  
## 1375 LK Sri Lanka 35.74000 2015  
## 1376 LK Sri Lanka 34.46000 2014  
## 1377 LK Sri Lanka 35.38000 2013  
## 1378 LK Sri Lanka 32.83000 2012  
## 1379 LK Sri Lanka 34.36000 2011  
## 1380 LK Sri Lanka 34.41000 2010  
## 1381 KN St. Kitts and Nevis NA 2015  
## 1382 KN St. Kitts and Nevis NA 2014  
## 1383 KN St. Kitts and Nevis NA 2013  
## 1384 KN St. Kitts and Nevis NA 2012  
## 1385 KN St. Kitts and Nevis NA 2011  
## 1386 KN St. Kitts and Nevis NA 2010  
## 1387 LC St. Lucia 65.34000 2015  
## 1388 LC St. Lucia 64.55000 2014  
## 1389 LC St. Lucia 63.74000 2013  
## 1390 LC St. Lucia 62.92000 2012  
## 1391 LC St. Lucia 62.12000 2011  
## 1392 LC St. Lucia 61.36000 2010  
## 1393 MF St. Martin (French part) NA 2015  
## 1394 MF St. Martin (French part) NA 2014  
## 1395 MF St. Martin (French part) NA 2013  
## 1396 MF St. Martin (French part) NA 2012  
## 1397 MF St. Martin (French part) NA 2011  
## 1398 MF St. Martin (French part) NA 2010  
## 1399 VC St. Vincent and the Grenadines 56.02000 2015  
## 1400 VC St. Vincent and the Grenadines 55.93000 2014  
## 1401 VC St. Vincent and the Grenadines 55.78000 2013  
## 1402 VC St. Vincent and the Grenadines 55.50000 2012  
## 1403 VC St. Vincent and the Grenadines 55.23000 2011  
## 1404 VC St. Vincent and the Grenadines 55.09000 2010  
## 1405 SD Sudan 28.58000 2015  
## 1406 SD Sudan 28.43000 2014  
## 1407 SD Sudan 28.28000 2013  
## 1408 SD Sudan 28.16000 2012  
## 1409 SD Sudan 28.10000 2011  
## 1410 SD Sudan 28.12000 2010  
## 1411 SR Suriname 39.72000 2015  
## 1412 SR Suriname 39.94000 2014  
## 1413 SR Suriname 39.90000 2013  
## 1414 SR Suriname 39.67000 2012  
## 1415 SR Suriname 39.42000 2011  
## 1416 SR Suriname 38.95000 2010  
## 1417 SE Sweden 60.69000 2015  
## 1418 SE Sweden 60.40000 2014  
## 1419 SE Sweden 60.20000 2013  
## 1420 SE Sweden 59.72000 2012  
## 1421 SE Sweden 59.47000 2011  
## 1422 SE Sweden 58.94000 2010  
## 1423 CH Switzerland 62.40000 2015  
## 1424 CH Switzerland 62.03000 2014  
## 1425 CH Switzerland 61.27000 2013  
## 1426 CH Switzerland 60.94000 2012  
## 1427 CH Switzerland 60.60000 2011  
## 1428 CH Switzerland 59.93000 2010  
## 1429 SY Syrian Arab Republic 14.21000 2015  
## 1430 SY Syrian Arab Republic 13.99000 2014  
## 1431 SY Syrian Arab Republic 13.74000 2013  
## 1432 SY Syrian Arab Republic 13.52000 2012  
## 1433 SY Syrian Arab Republic 13.34000 2011  
## 1434 SY Syrian Arab Republic 13.21000 2010  
## 1435 TJ Tajikistan 31.38000 2015  
## 1436 TJ Tajikistan 31.07000 2014  
## 1437 TJ Tajikistan 30.77000 2013  
## 1438 TJ Tajikistan 30.49000 2012  
## 1439 TJ Tajikistan 30.22000 2011  
## 1440 TJ Tajikistan 29.94000 2010  
## 1441 TZ Tanzania 79.85000 2015  
## 1442 TZ Tanzania 79.84000 2014  
## 1443 TZ Tanzania 81.08000 2013  
## 1444 TZ Tanzania 82.20000 2012  
## 1445 TZ Tanzania 83.23000 2011  
## 1446 TZ Tanzania 84.16000 2010  
## 1447 TH Thailand 60.94000 2015  
## 1448 TH Thailand 61.43000 2014  
## 1449 TH Thailand 62.45000 2013  
## 1450 TH Thailand 65.17000 2012  
## 1451 TH Thailand 65.97000 2011  
## 1452 TH Thailand 63.86000 2010  
## 1453 TL Timor-Leste 61.31000 2015  
## 1454 TL Timor-Leste 61.34000 2014  
## 1455 TL Timor-Leste 61.45000 2013  
## 1456 TL Timor-Leste 61.47000 2012  
## 1457 TL Timor-Leste 61.70000 2011  
## 1458 TL Timor-Leste 61.97000 2010  
## 1459 TG Togo 55.86000 2015  
## 1460 TG Togo 55.76000 2014  
## 1461 TG Togo 55.66000 2013  
## 1462 TG Togo 55.56000 2012  
## 1463 TG Togo 55.45000 2011  
## 1464 TG Togo 55.34000 2010  
## 1465 TO Tonga 39.30000 2015  
## 1466 TO Tonga 39.68000 2014  
## 1467 TO Tonga 39.97000 2013  
## 1468 TO Tonga 40.20000 2012  
## 1469 TO Tonga 40.40000 2011  
## 1470 TO Tonga 40.60000 2010  
## 1471 TT Trinidad and Tobago 50.94000 2015  
## 1472 TT Trinidad and Tobago 52.38000 2014  
## 1473 TT Trinidad and Tobago 52.01000 2013  
## 1474 TT Trinidad and Tobago 51.77000 2012  
## 1475 TT Trinidad and Tobago 50.49000 2011  
## 1476 TT Trinidad and Tobago 51.26000 2010  
## 1477 TN Tunisia 25.79000 2015  
## 1478 TN Tunisia 25.41000 2014  
## 1479 TN Tunisia 25.09000 2013  
## 1480 TN Tunisia 25.21000 2012  
## 1481 TN Tunisia 24.44000 2011  
## 1482 TN Tunisia 24.46000 2010  
## 1483 TR Turkey 31.45000 2015  
## 1484 TR Turkey 30.23000 2014  
## 1485 TR Turkey 30.09000 2013  
## 1486 TR Turkey 28.87000 2012  
## 1487 TR Turkey 28.32000 2011  
## 1488 TR Turkey 27.03000 2010  
## 1489 TM Turkmenistan 45.08000 2015  
## 1490 TM Turkmenistan 45.16000 2014  
## 1491 TM Turkmenistan 45.33000 2013  
## 1492 TM Turkmenistan 45.50000 2012  
## 1493 TM Turkmenistan 45.76000 2011  
## 1494 TM Turkmenistan 46.29000 2010  
## 1495 TC Turks and Caicos Islands NA 2015  
## 1496 TC Turks and Caicos Islands NA 2014  
## 1497 TC Turks and Caicos Islands NA 2013  
## 1498 TC Turks and Caicos Islands NA 2012  
## 1499 TC Turks and Caicos Islands NA 2011  
## 1500 TC Turks and Caicos Islands NA 2010  
## 1501 TV Tuvalu NA 2015  
## 1502 TV Tuvalu NA 2014  
## 1503 TV Tuvalu NA 2013  
## 1504 TV Tuvalu NA 2012  
## 1505 TV Tuvalu NA 2011  
## 1506 TV Tuvalu NA 2010  
## 1507 UG Uganda 66.64000 2015  
## 1508 UG Uganda 66.58000 2014  
## 1509 UG Uganda 66.52000 2013  
## 1510 UG Uganda 66.46000 2012  
## 1511 UG Uganda 66.25000 2011  
## 1512 UG Uganda 66.05000 2010  
## 1513 UA Ukraine 47.44000 2015  
## 1514 UA Ukraine 47.12000 2014  
## 1515 UA Ukraine 48.45000 2013  
## 1516 UA Ukraine 47.55000 2012  
## 1517 UA Ukraine 48.31000 2011  
## 1518 UA Ukraine 48.46000 2010  
## 1519 AE United Arab Emirates 50.59000 2015  
## 1520 AE United Arab Emirates 49.20000 2014  
## 1521 AE United Arab Emirates 47.84000 2013  
## 1522 AE United Arab Emirates 46.56000 2012  
## 1523 AE United Arab Emirates 45.37000 2011  
## 1524 AE United Arab Emirates 44.25000 2010  
## 1525 GB United Kingdom 56.69000 2015  
## 1526 GB United Kingdom 56.54000 2014  
## 1527 GB United Kingdom 56.24000 2013  
## 1528 GB United Kingdom 55.86000 2012  
## 1529 GB United Kingdom 55.58000 2011  
## 1530 GB United Kingdom 55.50000 2010  
## 1531 US United States 55.84000 2015  
## 1532 US United States 56.11000 2014  
## 1533 US United States 56.29000 2013  
## 1534 US United States 56.79000 2012  
## 1535 US United States 56.93000 2011  
## 1536 US United States 57.50000 2010  
## 1537 UY Uruguay 55.74000 2015  
## 1538 UY Uruguay 55.98000 2014  
## 1539 UY Uruguay 54.98000 2013  
## 1540 UY Uruguay 55.79000 2012  
## 1541 UY Uruguay 55.98000 2011  
## 1542 UY Uruguay 55.33000 2010  
## 1543 UZ Uzbekistan 49.67000 2015  
## 1544 UZ Uzbekistan 49.97000 2014  
## 1545 UZ Uzbekistan 50.24000 2013  
## 1546 UZ Uzbekistan 50.54000 2012  
## 1547 UZ Uzbekistan 50.84000 2011  
## 1548 UZ Uzbekistan 51.07000 2010  
## 1549 VU Vanuatu 60.90000 2015  
## 1550 VU Vanuatu 60.69000 2014  
## 1551 VU Vanuatu 60.61000 2013  
## 1552 VU Vanuatu 60.56000 2012  
## 1553 VU Vanuatu 60.57000 2011  
## 1554 VU Vanuatu 60.57000 2010  
## 1555 VE Venezuela, RB 49.15000 2015  
## 1556 VE Venezuela, RB 49.45000 2014  
## 1557 VE Venezuela, RB 49.64000 2013  
## 1558 VE Venezuela, RB 49.45000 2012  
## 1559 VE Venezuela, RB 49.58000 2011  
## 1560 VE Venezuela, RB 49.52000 2010  
## 1561 VN Vietnam 73.04000 2015  
## 1562 VN Vietnam 73.29000 2014  
## 1563 VN Vietnam 73.04000 2013  
## 1564 VN Vietnam 72.06000 2012  
## 1565 VN Vietnam 71.55000 2011  
## 1566 VN Vietnam 71.39000 2010  
## 1567 VI Virgin Islands (U.S.) 56.35000 2015  
## 1568 VI Virgin Islands (U.S.) 56.68000 2014  
## 1569 VI Virgin Islands (U.S.) 57.10000 2013  
## 1570 VI Virgin Islands (U.S.) 57.86000 2012  
## 1571 VI Virgin Islands (U.S.) 59.24000 2011  
## 1572 VI Virgin Islands (U.S.) 60.14000 2010  
## 1573 PS West Bank and Gaza 17.62000 2015  
## 1574 PS West Bank and Gaza 16.14000 2014  
## 1575 PS West Bank and Gaza 15.41000 2013  
## 1576 PS West Bank and Gaza 15.75000 2012  
## 1577 PS West Bank and Gaza 15.26000 2011  
## 1578 PS West Bank and Gaza 13.75000 2010  
## 1579 YE Yemen, Rep. 6.02000 2015  
## 1580 YE Yemen, Rep. 6.07000 2014  
## 1581 YE Yemen, Rep. 6.88000 2013  
## 1582 YE Yemen, Rep. 7.79000 2012  
## 1583 YE Yemen, Rep. 8.84000 2011  
## 1584 YE Yemen, Rep. 10.04000 2010  
## 1585 ZM Zambia 70.25000 2015  
## 1586 ZM Zambia 70.20000 2014  
## 1587 ZM Zambia 70.16000 2013  
## 1588 ZM Zambia 70.12000 2012  
## 1589 ZM Zambia 70.62000 2011  
## 1590 ZM Zambia 71.12000 2010  
## 1591 ZW Zimbabwe 77.85000 2015  
## 1592 ZW Zimbabwe 77.77000 2014  
## 1593 ZW Zimbabwe 77.66000 2013  
## 1594 ZW Zimbabwe 77.53000 2012  
## 1595 ZW Zimbabwe 77.44000 2011  
## 1596 ZW Zimbabwe 77.29000 2010

#didn't work, try again   
names(female\_lfp)[3]= "flfp"  
  
#My console collapsed. check if it went through  
summary(female\_lfp)

## iso2c country flfp year   
## Length:1596 Length:1596 Min. : 6.02 Min. :2010   
## Class :character Class :character 1st Qu.:44.89 1st Qu.:2011   
## Mode :character Mode :character Median :51.81 Median :2012   
## Mean :50.87 Mean :2012   
## 3rd Qu.:60.33 3rd Qu.:2014   
## Max. :87.12 Max. :2015   
## NA's :186

\*\* Question 4\*\*

Collapse female\_lfp by the mean value for flfp for each country. When you do, keep the ISO-2 country code in your data frame as well as the country name. Name your resulting data frame collapsed\_flfp.

#create new df with observable variables  
female\_lfp\_no\_NAs <- na.omit(female\_lfp, select=c("flfp"))  
  
#didn't work. im going to drop the ones that don't have any flfp  
rm(female\_lfp\_no\_NAs)  
  
library (tidyverse)

## ── Attaching packages ─────────────────────────────────────── tidyverse 1.3.1 ──

## ✓ ggplot2 3.3.3 ✓ purrr 0.3.4  
## ✓ tibble 3.1.2 ✓ stringr 1.4.0  
## ✓ tidyr 1.1.3 ✓ forcats 0.5.1  
## ✓ readr 1.4.0

## ── Conflicts ────────────────────────────────────────── tidyverse\_conflicts() ──  
## x dplyr::filter() masks stats::filter()  
## x dplyr::lag() masks stats::lag()

female\_lfp\_no\_NAs <-  
 female\_lfp %>% dplyr::filter(!(flfp=="NA"))  
subset(female\_lfp, flfp=="NA")

## [1] iso2c country flfp year   
## <0 rows> (or 0-length row.names)

#mean of flfp  
mean(female\_lfp\_no\_NAs$flfp)

## [1] 50.8687

#collapse  
collapsed\_flfp <-  
 female\_lfp\_no\_NAs %>%  
 group\_by(iso2c) %>%  
 summarize(flfp= mean(flfp), country)

## `summarise()` has grouped output by 'iso2c'. You can override using the `.groups` argument.

\*\* Question 6\*\*

Use R to present a map of the world of using collapsed\_flfp, using the viridis color scheme. Note: you have already the world border shape files from the training. However, there are a few different ways that you can present the map.

#load libraries  
library(rio)  
library(tidyverse)  
library(dplyr)  
library(googlesheets4)   
library(labelled)   
library(data.table)

##   
## Attaching package: 'data.table'

## The following object is masked from 'package:purrr':  
##   
## transpose

## The following objects are masked from 'package:dplyr':  
##   
## between, first, last

library(varhandle)   
library(ggrepel)   
library(geosphere)   
library(ggplot2)  
library(rgeos)

## Loading required package: sp

## rgeos version: 0.5-5, (SVN revision 640)  
## GEOS runtime version: 3.8.1-CAPI-1.13.3   
## Linking to sp version: 1.4-2   
## Polygon checking: TRUE

library(viridis)

## Loading required package: viridisLite

library(mapview)   
library(rnaturalearth)   
library(rnaturalearthdata)

##   
## Attaching package: 'rnaturalearthdata'

## The following object is masked from 'package:rnaturalearth':  
##   
## countries110

library(devtools)

## Loading required package: usethis

library(remotes)

##   
## Attaching package: 'remotes'

## The following objects are masked from 'package:devtools':  
##   
## dev\_package\_deps, install\_bioc, install\_bitbucket, install\_cran,  
## install\_deps, install\_dev, install\_git, install\_github,  
## install\_gitlab, install\_local, install\_svn, install\_url,  
## install\_version, update\_packages

## The following object is masked from 'package:usethis':  
##   
## git\_credentials

library(raster)

##   
## Attaching package: 'raster'

## The following object is masked from 'package:data.table':  
##   
## shift

## The following object is masked from 'package:tidyr':  
##   
## extract

## The following object is masked from 'package:dplyr':  
##   
## select

library(sp)   
library(Imap)

##   
## Attaching package: 'Imap'

## The following object is masked from 'package:purrr':  
##   
## imap

library(sf)

## Warning: package 'sf' was built under R version 4.0.5

## Linking to GEOS 3.8.1, GDAL 3.2.0, PROJ 7.2.0

#load the shape file (the whole folder). Make sure the file is on the working directory  
world\_borders <- st\_read("world border shape files")

## Reading layer `World\_Borders' from data source   
## `/Users/georgiatamez/Desktop/Summer 2021/Exam-3/world border shape files'   
## using driver `ESRI Shapefile'  
## Simple feature collection with 246 features and 11 fields  
## Geometry type: MULTIPOLYGON  
## Dimension: XY  
## Bounding box: xmin: -180 ymin: -90 xmax: 180 ymax: 83.6236  
## Geodetic CRS: WGS 84

#Any time we load a shape file, we need to ensure that it is in WGSformat  
borders <- st\_transform(world\_borders, "+proj=longlat +ellps=WGS84 +datum=WGS84")  
  
#create the map  
library(viridisLite)   
  
#transform to sf format  
borders\_sf = st\_sf(borders)  
  
#map  
world\_basic = ggplot() +   
 geom\_sf(data = borders) +   
 geom\_sf(data = collapsed\_flfp)+ scale\_fill\_gradientn(colors=viridis)  
  
world\_map = ggplot() + geom\_sf(data = borders\_sf) +   
 geom\_sf(data = collapsed\_flfp, aes(color=flfp)) + scale\_fill\_gradientn(colors=viridis)

\*\* Question 9\*\*

In a Shiny app, what are the three main components and their subcomponents? [5 points]

1. Library: shiny
2. User interface: input, output
3. Server

#Example  
  
# load the library  
library(shiny)

##   
## Attaching package: 'shiny'

## The following object is masked from 'package:geosphere':  
##   
## span

# User Interface (UI) [an HTML page]  
ui <- fluidPage("Hello, World")  
  
# Input the server function  
# which functions on the basis of input & output   
server <- function(input,output) {  
}

\*\* Question 10\*\*

Pull this .pdf file from Mike Denly’s webpage. It is a report that Mike Denly and Mike Findley prepared for the US Agency for International Development (USAID). [5 points]

#add pdftools so that we can pull from .pdf documents.  
#First be sure libraries all loaded   
#install.packages('')   
library(topicmodels)  
library(pdftools)

## Using poppler version 20.12.1

library(tidyr)   
library(tidytext)   
library(dplyr)   
library(stringr)   
library(ggplot2)  
  
#load the file  
USAID\_report=pdf\_text(pdf = "https://pdf.usaid.gov/pdf\_docs/PA00TNMJ.pdf")

\*\* Question 11\*\*

Convert the text pulled from this .pdf file to a data frame, using the stringsAsFactors=FALSE option. Call the data frame armeniatext [5 points].

* what i tried and failed armeniatext = data.frame(USAID\_report, stringsAsFactors = FALSE, armeniatext$page=(c(1:59))

\*\* Question 12\*\*

Tokenize the data by word and then remove stop words

* what i tried and failed armeniatexttoken=armeniatext %>% unnest\_tokens(word, text)

USAID\_report\_vector=as.vector(armeniatext[1])

armeniatexttokenized=USAID\_report\_vector %>% unnest\_tokens(word, text)

\*\* Question 14\*\*

Load the Billboard Hot 100 webpage, which we explored in the course modules. Name the list object: hot100exam [5 points]

#load libraries  
library(rvest)

##   
## Attaching package: 'rvest'

## The following object is masked from 'package:readr':  
##   
## guess\_encoding

library (dplyr)  
library(XML)  
  
#use function read\_html to capture the html code of the billboard  
hot100page= "https://www.billboard.com/charts/hot-100"  
hot100= read\_html(hot100page)

\*\* Question 15\*\*

Use rvest to obtain identify all of the nodes in the webpage. [5 points]

#Use rvest to obtain the nodes of the webpage  
rank <- hot100 %>%  
 rvest::html\_nodes('body') %>%   
 xml2::xml\_find\_all("//span[contains(@class,  
'chart-element\_\_rank\_\_number')]") %>%  
rvest::html\_text()  
  
artist <- hot100 %>%   
 rvest::html\_nodes('body') %>%   
xml2::xml\_find\_all("//span[contains(@class,  
'chart-element\_\_information\_\_artist')]") %>%  
 rvest::html\_text()  
  
title <- hot100 %>%   
 rvest::html\_nodes('body') %>%   
xml2::xml\_find\_all("//span[contains(@class,  
'chart-element\_\_information\_\_song')]") %>%  
 rvest::html\_text()

\*\* Question 16\*\*

Use Google Chrome developer to identify the necessary tags and pull the data on Rank, Artist, Title, and Last Week. HINT 1: In class we showed you how to get the first three of these. You simply need to add the Last Week ranking. HINT 2: You can navigate two ways. Hovering to find what you need or by doing Cmd+F / Ctrl+F and using actual data to find the location. HINT 3: You’re looking to update the code based on the way the information is in referenced. Try out some different options and see what shows up in the environment. Keep trying until you see that you have a chr [1:100] with values that correspond to what is in the web page. [5 points]

#Get weeks on charts- used method number 3  
weeks\_on\_charts <- hot100 %>%   
 rvest::html\_nodes('body') %>%   
xml2::xml\_find\_all("//span[contains(@class,  
'chart-element\_\_information\_\_delta\_\_text text--week')]") %>%  
 rvest::html\_text()