Pitcher Deception

## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

# Packages Needed  
require(dplyr)

## Loading required package: 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

require(rpart)

## Loading required package: rpart

require(ggplot2)

## Loading required package: ggplot2

require(corrplot)

## Loading required package: corrplot

## corrplot 0.84 loaded

require(caret)

## Loading required package: caret

## Loading required package: lattice

library(dplyr)  
library(rpart)  
library(ggplot2)  
library(corrplot)  
library(caret)

url2021 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2021\_MLB.csv"  
url2020 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2020\_MLB.csv"  
url2019 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2019\_MLB.csv"  
url2018 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2018\_MLB.csv"  
url2017 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2017\_MLB.csv"  
url2016 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2016\_MLB.csv"  
url2015 <- "https://raw.githubusercontent.com/Chrisboatto/Pitcher-Deception/main/2015\_MLB.csv"

MLB2021 <- read.csv(url2021)  
MLB2020 <- read.csv(url2020)  
MLB2019 <- read.csv(url2019)  
MLB2018 <- read.csv(url2018)  
MLB2017 <- read.csv(url2017)  
MLB2016 <- read.csv(url2016)  
MLB2015 <- read.csv(url2015)

MLBPitcher <- rbind(MLB2021, MLB2020, MLB2019, MLB2018, MLB2017, MLB2016, MLB2015)

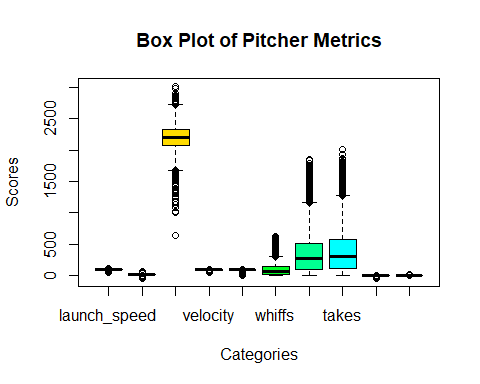
sum(is.na(MLBPitcher))

## [1] 105

summary(MLBPitcher)

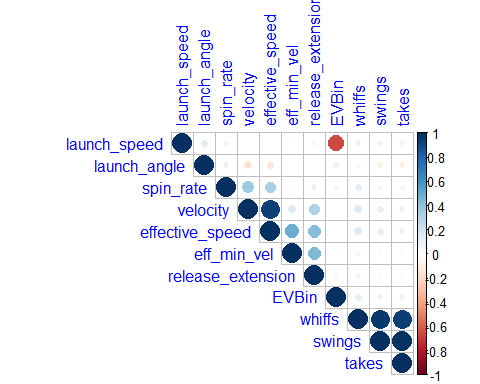
## ï..pitches player\_id player\_name total\_pitches   
## Min. : 1.0 Min. :112526 Length:5492 Min. : 1.0   
## 1st Qu.: 199.0 1st Qu.:514852 Class :character 1st Qu.: 199.0   
## Median : 566.5 Median :592169 Mode :character Median : 566.5   
## Mean : 826.9 Mean :564531 Mean : 826.9   
## 3rd Qu.:1088.0 3rd Qu.:621294 3rd Qu.:1088.0   
## Max. :3687.0 Max. :685503 Max. :3687.0   
##   
## pitch\_percent ba iso babip   
## Min. :100 Min. :0.0000 Min. :0.0000 Min. :0.0000   
## 1st Qu.:100 1st Qu.:0.2220 1st Qu.:0.1230 1st Qu.:0.2630   
## Median :100 Median :0.2550 Median :0.1670 Median :0.2990   
## Mean :100 Mean :0.2644 Mean :0.1865 Mean :0.3029   
## 3rd Qu.:100 3rd Qu.:0.2930 3rd Qu.:0.2190 3rd Qu.:0.3330   
## Max. :100 Max. :1.0000 Max. :3.0000 Max. :1.0000   
## NA's :3 NA's :3 NA's :15   
## slg woba xwoba xba   
## Min. :0.0000 Min. :0.0000 Min. :0.0000 Min. :0.0000   
## 1st Qu.:0.3570 1st Qu.:0.2890 1st Qu.:0.2900 1st Qu.:0.2190   
## Median :0.4240 Median :0.3250 Median :0.3190 Median :0.2460   
## Mean :0.4509 Mean :0.3392 Mean :0.3296 Mean :0.2513   
## 3rd Qu.:0.5030 3rd Qu.:0.3730 3rd Qu.:0.3560 3rd Qu.:0.2740   
## Max. :4.0000 Max. :1.4730 Max. :1.1720 Max. :0.9000   
## NA's :3 NA's :2 NA's :17   
## hits abs launch\_speed launch\_angle   
## Min. : 0.00 Min. : 0.0 Min. : 46.40 Min. :-45.00   
## 1st Qu.: 12.00 1st Qu.: 44.0 1st Qu.: 86.80 1st Qu.: 8.50   
## Median : 32.00 Median :126.0 Median : 88.20 Median : 12.50   
## Mean : 47.73 Mean :190.1 Mean : 88.26 Mean : 12.69   
## 3rd Qu.: 61.00 3rd Qu.:247.0 3rd Qu.: 89.60 3rd Qu.: 16.50   
## Max. :240.00 Max. :879.0 Max. :110.50 Max. : 69.00   
## NA's :17 NA's :17   
## spin\_rate velocity effective\_speed whiffs   
## Min. : 635 Min. :39.40 Min. : 0.00 Min. : 0.00   
## 1st Qu.:2070 1st Qu.:86.70 1st Qu.:85.91 1st Qu.: 21.00   
## Median :2201 Median :88.70 Median :88.18 Median : 65.00   
## Mean :2195 Mean :88.07 Mean :87.35 Mean : 95.39   
## 3rd Qu.:2333 3rd Qu.:90.70 3rd Qu.:90.27 3rd Qu.:136.00   
## Max. :3020 Max. :98.80 Max. :99.00 Max. :624.00   
## NA's :4 NA's :3 NA's :1   
## swings takes eff\_min\_vel release\_extension  
## Min. : 0.0 Min. : 0.0 Min. :-47.4000 Min. :3.880   
## 1st Qu.: 90.0 1st Qu.: 106.8 1st Qu.: -1.1000 1st Qu.:5.760   
## Median : 263.0 Median : 299.5 Median : -0.5000 Median :6.060   
## Mean : 388.4 Mean : 437.2 Mean : -0.6924 Mean :6.048   
## 3rd Qu.: 518.0 3rd Qu.: 576.0 3rd Qu.: 0.0000 3rd Qu.:6.370   
## Max. :1854.0 Max. :2018.0 Max. : 2.6000 Max. :8.090   
## NA's :3 NA's :3   
## pos3\_int\_start\_distance pos4\_int\_start\_distance pos5\_int\_start\_distance  
## Min. : 95 Min. :130 Min. : 97.0   
## 1st Qu.:108 1st Qu.:149 1st Qu.:111.0   
## Median :110 Median :151 Median :114.0   
## Mean :110 Mean :151 Mean :114.6   
## 3rd Qu.:112 3rd Qu.:153 3rd Qu.:117.0   
## Max. :131 Max. :199 Max. :150.0   
## NA's :2 NA's :2 NA's :2   
## pos6\_int\_start\_distance pos7\_int\_start\_distance pos8\_int\_start\_distance  
## Min. :120.0 Min. :262.0 Min. :289.0   
## 1st Qu.:146.0 1st Qu.:292.0 1st Qu.:315.0   
## Median :147.0 Median :296.0 Median :319.0   
## Mean :147.2 Mean :295.8 Mean :318.9   
## 3rd Qu.:149.0 3rd Qu.:300.0 3rd Qu.:324.0   
## Max. :175.0 Max. :325.0 Max. :355.0   
## NA's :2 NA's :2 NA's :2   
## pos9\_int\_start\_distance  
## Min. :262.0   
## 1st Qu.:291.0   
## Median :295.0   
## Mean :294.6   
## 3rd Qu.:298.0   
## Max. :331.0   
## NA's :2

boxplot(MLBPitcher[15:24], col = rainbow(14), main = "Box Plot of Pitcher Metrics", xlab = "Categories", ylab = "Scores")



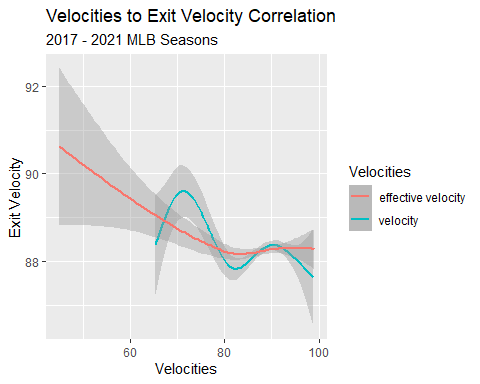
MLBPitcher <- na.omit(MLBPitcher)  
MLBPitcher <- filter(MLBPitcher, spin\_rate > 700)  
MLBPitcher <- filter(MLBPitcher, velocity > 65)  
MLBPitcher <- select(MLBPitcher, -c(pos9\_int\_start\_distance, pos8\_int\_start\_distance, pos7\_int\_start\_distance, pos6\_int\_start\_distance, pos5\_int\_start\_distance, pos4\_int\_start\_distance, pos3\_int\_start\_distance))  
MLBPitcher <- mutate(MLBPitcher, 'EVBin' = case\_when(launch\_speed < 88.25 ~ 1, launch\_speed >= 88.25 ~ 0))

MLBPitcher\_cor <- cor(MLBPitcher[15:25])  
corrplot(MLBPitcher\_cor, type = "upper", order = 'hclust', tl.col = "blue")



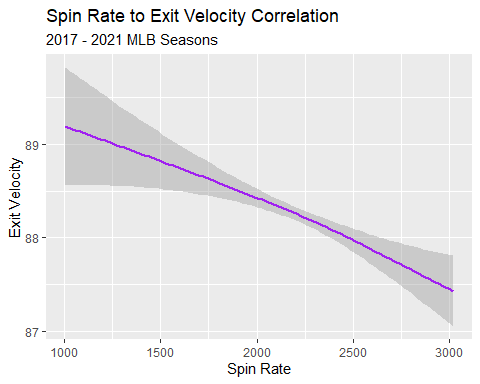
ggplot(MLBPitcher) +  
 geom\_smooth(aes(x = velocity, y = launch\_speed, colour = "velocity"), method = "auto", level = 0.9) + geom\_smooth(aes(x = effective\_speed, y = launch\_speed, colour = "effective velocity"), method = "auto", level = 0.9) +  
 labs(title = "Velocities to Exit Velocity Correlation", subtitle = "2017 - 2021 MLB Seasons", x = "Velocities", y = "Exit Velocity", colour = "Velocities")

## `geom\_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'  
## `geom\_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'



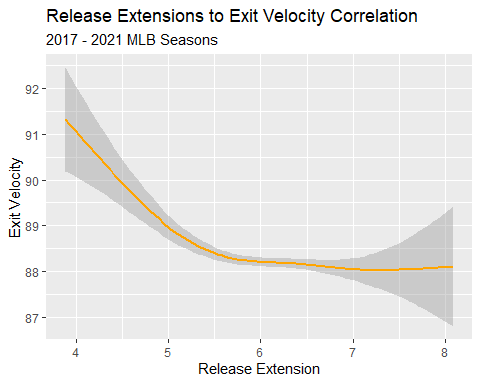
ggplot(MLBPitcher) +  
 geom\_smooth(aes(x = spin\_rate, y = launch\_speed), method = "auto", level = 0.9, colour = "purple") +  
 labs(title = "Spin Rate to Exit Velocity Correlation", subtitle = "2017 - 2021 MLB Seasons", x = "Spin Rate", y = "Exit Velocity")

## `geom\_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'



ggplot(MLBPitcher) +  
 geom\_smooth(aes(x = release\_extension, y = launch\_speed), method = "auto", level = 0.9, colour = "Orange") +  
labs(title = "Release Extensions to Exit Velocity Correlation", subtitle = "2017 - 2021 MLB Seasons", x = "Release Extension", y = "Exit Velocity")

## `geom\_smooth()` using method = 'gam' and formula 'y ~ s(x, bs = "cs")'



LinModel <- glm(EVBin ~ spin\_rate + velocity + release\_extension + eff\_min\_vel + effective\_speed + total\_pitches, data = MLBPitcher, family = 'binomial')  
summary(LinModel)

##   
## Call:  
## glm(formula = EVBin ~ spin\_rate + velocity + release\_extension +   
## eff\_min\_vel + effective\_speed + total\_pitches, family = "binomial",   
## data = MLBPitcher)  
##   
## Deviance Residuals:   
## Min 1Q Median 3Q Max   
## -1.5526 -1.1612 0.8847 1.1717 1.4754   
##   
## Coefficients:  
## Estimate Std. Error z value Pr(>|z|)   
## (Intercept) -2.884e-01 6.822e-01 -0.423 0.672462   
## spin\_rate 6.667e-04 1.451e-04 4.595 4.34e-06 \*\*\*  
## velocity 9.364e-01 9.403e-01 0.996 0.319357   
## release\_extension 2.487e-01 6.750e-02 3.684 0.000229 \*\*\*  
## eff\_min\_vel 9.738e-01 9.401e-01 1.036 0.300255   
## effective\_speed -9.686e-01 9.404e-01 -1.030 0.302993   
## total\_pitches 2.121e-04 3.358e-05 6.317 2.66e-10 \*\*\*  
## ---  
## Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1  
##   
## (Dispersion parameter for binomial family taken to be 1)  
##   
## Null deviance: 7526.1 on 5428 degrees of freedom  
## Residual deviance: 7443.7 on 5422 degrees of freedom  
## AIC: 7457.7  
##   
## Number of Fisher Scoring iterations: 4

DeceptionPred <- predict(LinModel, MLBPitcher)

MLBPitcher <- cbind(MLBPitcher, DeceptionPred)

MLBPitcher\_full <- select(MLBPitcher, c(player\_name, launch\_speed, EVBin, DeceptionPred, velocity, spin\_rate, release\_extension, effective\_speed, eff\_min\_vel, total\_pitches))  
  
MLBPitcher\_full[order(-MLBPitcher\_full$DeceptionPred),]

## player\_name launch\_speed EVBin DeceptionPred velocity  
## 7 Wainwright, Adam 87.8 1 0.8903471702 82.3  
## 3978 McHugh, Collin 86.6 1 0.8690155209 84.0  
## 54 Hill, Rich 87.1 1 0.8548224836 80.3  
## 2420 Shields, James 88.6 0 0.8491249156 84.7  
## 4015 Weaver, Jered 88.0 1 0.8250861201 77.8  
## 1635 Gray, Sonny 87.6 1 0.8243062047 88.4  
## 1600 Bauer, Trevor 88.4 0 0.8198563161 87.1  
## 3972 Wainwright, Adam 86.5 1 0.8160582187 84.7  
## 16 Musgrove, Joe 87.3 1 0.7836796378 87.2  
## 3308 Hill, Rich 85.7 1 0.7823841106 82.7  
## 3959 Bumgarner, Madison 88.4 0 0.7806795347 87.4  
## 29 Darvish, Yu 87.3 1 0.7790642246 87.0  
## 3979 Shields, James 88.6 0 0.7790383436 86.5  
## 1637 Wainwright, Adam 88.7 0 0.7738271655 83.1  
## 4717 McHugh, Collin 85.6 1 0.7621452447 85.0  
## 4707 Shields, James 88.8 0 0.7612661289 86.7  
## 3957 Verlander, Justin 87.6 1 0.7568284659 90.0  
## 3220 deGrom, Jacob 86.1 1 0.7518454435 91.5  
## 17 Lyles, Jordan 88.9 0 0.7509912471 87.7  
## 2 Wheeler, Zack 83.8 1 0.7448549753 93.8  
## 2521 Hill, Rich 88.5 0 0.7386492218 83.3  
## 3962 Porcello, Rick 88.2 1 0.7361618700 86.6  
## 1603 Verlander, Justin 87.3 1 0.7340610073 89.6  
## 1611 Bumgarner, Madison 90.0 0 0.7321241598 87.3  
## 4785 Weaver, Jered 86.5 1 0.7290257830 77.8  
## 18 Morton, Charlie 87.1 1 0.7279750795 88.8  
## 40 Burnes, Corbin 84.8 1 0.7250703907 91.7  
## 53 Yarbrough, Ryan 84.0 1 0.7197755652 79.6  
## 2418 Verlander, Justin 88.0 1 0.7192714156 90.7  
## 3992 Eickhoff, Jerad 88.4 0 0.7176767560 85.6  
## 200 Maton, Phil 87.9 1 0.7114417211 85.8  
## 1604 Strasburg, Stephen 87.8 1 0.7068126562 88.7  
## 3211 Porcello, Rick 88.1 1 0.7057594407 86.7  
## 3238 Darvish, Yu 86.0 1 0.7024190668 89.1  
## 108 Bauer, Trevor 89.3 0 0.7010439358 87.9  
## 3243 Vargas, Jason 86.9 1 0.6972912525 80.9  
## 1601 Lynn, Lance 87.7 1 0.6959165332 91.9  
## 3964 Kennedy, Ian 89.1 0 0.6948272011 89.2  
## 2433 Porcello, Rick 88.7 0 0.6923732271 86.1  
## 58 Peralta, Freddy 85.6 1 0.6885000375 87.6  
## 3212 GonzÃ¡lez, Gio 85.9 1 0.6878787343 84.8  
## 6 Buehler, Walker 87.0 1 0.6872234899 91.1  
## 2459 Pivetta, Nick 87.6 1 0.6831795151 89.7  
## 3208 Verlander, Justin 87.4 1 0.6821417488 91.1  
## 12 Cease, Dylan 88.3 0 0.6775186741 89.4  
## 1607 Nola, Aaron 88.9 0 0.6761316683 86.7  
## 1640 Darvish, Yu 88.5 0 0.6744473741 88.3  
## 1609 Corbin, Patrick 89.8 0 0.6707670613 86.7  
## 1617 Morton, Charlie 86.8 1 0.6679866850 87.3  
## 4087 Hill, Rich 87.1 1 0.6677162397 82.6  
## 32 Pivetta, Nick 89.2 0 0.6677113709 88.8  
## 273 McHugh, Collin 86.5 1 0.6672879903 83.2  
## 2426 Nola, Aaron 86.7 1 0.6671885049 86.4  
## 13 Nola, Aaron 88.6 0 0.6608405356 87.2  
## 3971 VÃ³lquez, Edinson 88.8 0 0.6595330969 88.4  
## 1612 Gonzales, Marco 88.2 1 0.6545828349 84.3  
## 77 Gray, Sonny 86.0 1 0.6530771582 87.2  
## 2457 Bauer, Trevor 87.3 1 0.6530295785 87.3  
## 1 Mahle, Tyler 86.6 1 0.6527315556 90.6  
## 1625 Lester, Jon 88.5 0 0.6475153490 86.3  
## 1613 Flaherty, Jack 86.4 1 0.6414117382 89.3  
## 3232 Corbin, Patrick 87.9 1 0.6410020958 87.2  
## 4004 Maeda, Kenta 85.7 1 0.6359528398 84.1  
## 2427 deGrom, Jacob 85.5 1 0.6328055933 92.5  
## 119 Espino, Paolo 88.0 1 0.6317335291 82.5  
## 2428 Kluber, Corey 87.7 1 0.6309790914 88.7  
## 1606 Minor, Mike 86.6 1 0.6309085693 88.4  
## 4069 Griffin, A.J. 89.1 0 0.6283869060 82.8  
## 3241 Kluber, Corey 85.3 1 0.6278783772 89.1  
## 4712 Kluber, Corey 87.6 1 0.6270426684 90.2  
## 1605 Cole, Gerrit 87.6 1 0.6269412649 92.4  
## 4766 Porcello, Rick 88.7 0 0.6262432526 88.0  
## 1619 Boyd, Matthew 88.7 0 0.6262112165 85.9  
## 1661 Kershaw, Clayton 87.9 1 0.6217360859 86.2  
## 2421 Clevinger, Mike 87.2 1 0.6214156885 87.6  
## 174 Cishek, Steve 84.8 1 0.6196438925 85.1  
## 4716 Miller, Shelby 87.1 1 0.6187985114 91.3  
## 3240 Hammel, Jason 87.9 1 0.6172429295 87.8  
## 3323 Shields, James 87.7 1 0.6168077450 84.8  
## 2542 Glasnow, Tyler 89.8 0 0.6165816989 92.8  
## 1608 Bieber, Shane 90.6 0 0.6147476927 88.4  
## 3977 Lester, Jon 87.1 1 0.6124203818 89.3  
## 4709 Bumgarner, Madison 87.3 1 0.6116934148 88.0  
## 3974 Kluber, Corey 86.6 1 0.6114357999 90.1  
## 1626 Teheran, Julio 88.8 0 0.6111317014 86.6  
## 2430 Corbin, Patrick 88.3 0 0.6110413935 85.2  
## 1610 deGrom, Jacob 86.5 1 0.6098873180 94.0  
## 268 Romo, Sergio 85.4 1 0.6095775145 80.1  
## 2478 Flaherty, Jack 86.9 1 0.6075997823 88.0  
## 2491 Stratton, Chris 90.3 0 0.6060893797 87.3  
## 1675 Vargas, Jason 87.3 1 0.6045886822 80.2  
## 20 Gibson, Kyle 88.4 0 0.6044368392 88.3  
## 3226 Lester, Jon 86.2 1 0.6043370073 87.6  
## 3982 GonzÃ¡lez, Gio 88.7 0 0.6038723918 87.5  
## 1632 Kelly, Merrill 89.6 0 0.6017818511 88.3  
## 1633 Porcello, Rick 88.2 1 0.5991951888 86.1  
## 2432 Lester, Jon 88.2 1 0.5980861384 87.1  
## 2425 Greinke, Zack 88.0 1 0.5971428715 85.3  
## 66 Taillon, Jameson 88.4 0 0.5970789645 89.6  
## 2424 Gibson, Kyle 87.7 1 0.5959002161 89.3  
## 3269 Fiers, Mike 86.3 1 0.5955033620 84.7  
## 4735 Fiers, Mike 87.7 1 0.5946485111 85.6  
## 255 Williams, Devin 85.1 1 0.5913138155 87.7  
## 15 Cole, Gerrit 88.4 0 0.5895973698 92.3  
## 3227 Scherzer, Max 86.5 1 0.5886704980 89.0  
## 1162 Romo, Sergio 86.6 1 0.5886357432 78.7  
## 158 Stratton, Chris 89.0 0 0.5884633987 88.0  
## 2462 Teheran, Julio 88.5 0 0.5853768752 85.8  
## 31 Corbin, Patrick 88.0 1 0.5844648534 87.2  
## 879 Bauer, Trevor 88.2 1 0.5825975333 87.5  
## 3223 Bauer, Trevor 89.3 0 0.5823128397 87.8  
## 766 Zamora, Daniel 91.6 0 0.5822019282 79.9  
## 2465 Duffy, Danny 88.4 0 0.5820683113 88.1  
## 4701 Kershaw, Clayton 85.3 1 0.5818394412 89.0  
## 1627 Samardzija, Jeff 89.3 0 0.5814126307 88.7  
## 3221 Greinke, Zack 87.1 1 0.5813959422 86.3  
## 3235 Teheran, Julio 87.0 1 0.5810913741 87.3  
## 3267 Kennedy, Ian 89.3 0 0.5788152642 88.3  
## 73 Bumgarner, Madison 87.9 1 0.5780245600 85.6  
## 3532 Romo, Sergio 85.7 1 0.5754805720 80.4  
## 2422 Cole, Gerrit 88.9 0 0.5750832741 91.9  
## 3230 Davies, Zach 85.9 1 0.5738259690 85.4  
## 85 Gilbert, Logan 89.1 0 0.5737028097 89.7  
## 3960 Scherzer, Max 86.9 1 0.5728851149 90.6  
## 1641 Buehler, Walker 89.0 0 0.5725792324 92.8  
## 152 Glasnow, Tyler 91.5 0 0.5723688028 92.0  
## 3231 Straily, Dan 87.1 1 0.5716559108 86.8  
## 2746 Maton, Phil 85.4 1 0.5715575049 86.2  
## 4007 Sabathia, CC 84.9 1 0.5690319555 86.9  
## 28 McCullers Jr., Lance 89.7 0 0.5683638157 88.3  
## 2452 Snell, Blake 87.4 1 0.5655761452 90.5  
## 4715 Richards, Garrett 87.0 1 0.5654461224 92.4  
## 176 Luetge, Lucas 86.6 1 0.5640827099 84.7  
## 2485 Sabathia, CC 84.7 1 0.5638207054 85.9  
## 3209 Sale, Chris 86.7 1 0.5638097666 88.2  
## 2456 Boyd, Matthew 87.2 1 0.5635936025 84.1  
## 1650 Gibson, Kyle 88.1 1 0.5618955519 88.4  
## 2637 Romo, Sergio 86.2 1 0.5612616596 80.1  
## 2628 Cishek, Steve 87.2 1 0.5606474846 85.5  
## 204 Ottavino, Adam 84.6 1 0.5603003869 87.7  
## 3236 Carrasco, Carlos 87.1 1 0.5590691341 89.8  
## 60 Snell, Blake 87.9 1 0.5590286861 90.3  
## 3215 Samardzija, Jeff 87.3 1 0.5584472519 90.2  
## 1141 Cishek, Steve 89.2 0 0.5570525566 84.0  
## 1830 Cishek, Steve 84.7 1 0.5570413572 85.8  
## 4049 deGrom, Jacob 87.8 1 0.5569246859 90.9  
## 4020 Fiers, Mike 89.7 0 0.5559126413 84.8  
## 2480 Gonzales, Marco 88.4 0 0.5557522206 85.3  
## 2455 Wheeler, Zack 85.4 1 0.5554907127 92.3  
## 1518 Venditte, Pat 82.7 1 0.5552454095 77.1  
## 4194 Cishek, Steve 87.0 1 0.5552136241 85.4  
## 3985 Bauer, Trevor 89.4 0 0.5540836901 89.1  
## 1615 Wheeler, Zack 86.7 1 0.5532059994 93.1  
## 112 Kershaw, Clayton 86.7 1 0.5526368498 86.4  
## 3256 Strasburg, Stephen 87.3 1 0.5514483001 91.0  
## 4703 Quintana, JosÃ© 88.2 1 0.5512414462 87.8  
## 3999 FernÃ¡ndez, JosÃ© 88.9 0 0.5510328651 90.9  
## 4724 Lester, Jon 86.8 1 0.5504893174 88.5  
## 4445 Venditte, Pat 90.0 0 0.5479825374 79.1  
## 2423 Freeland, Kyle 86.6 1 0.5470088726 88.5  
## 3598 Cishek, Steve 83.6 1 0.5455795445 83.9  
## 2502 Kershaw, Clayton 87.7 1 0.5453100966 86.7  
## 3372 Griffin, A.J. 86.7 1 0.5451848833 79.8  
## 2417 Scherzer, Max 86.5 1 0.5450081963 89.4  
## 2595 Ottavino, Adam 85.5 1 0.5447913418 87.3  
## 920 Glasnow, Tyler 90.0 0 0.5441144215 91.6  
## 4036 Wright, Steven 86.8 1 0.5434855749 75.0  
## 50 Fried, Max 85.2 1 0.5432323124 86.6  
## 61 Heaney, Andrew 88.8 0 0.5421871152 87.7  
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## 4723 Miley, Wade 87.3 1 0.5394698110 87.8  
## 4028 Tomlin, Josh 87.6 1 0.5390383773 85.1  
## 512 Crick, Kyle 82.6 1 0.5388670175 84.2  
## 3007 Venditte, Pat 82.7 1 0.5384708587 78.5  
## 3995 Fister, Doug 87.3 1 0.5378763359 84.0  
## 4711 Teheran, Julio 88.9 0 0.5374150387 87.2  
## 3973 Samardzija, Jeff 88.6 0 0.5362819233 91.3  
## 1807 Ottavino, Adam 85.0 1 0.5359664912 87.7  
## 4710 VÃ³lquez, Edinson 88.3 0 0.5355508469 88.8  
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## 2445 Mikolas, Miles 86.1 1 0.5244394726 88.8  
## 4706 Samardzija, Jeff 87.7 1 0.5237309116 91.1  
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## 4749 Kennedy, Ian 89.4 0 0.5222844544 88.0  
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## 3981 Arrieta, Jake 86.4 1 0.5198456709 91.7  
## 3998 Teheran, Julio 88.3 0 0.5197733085 86.3  
## 4018 Gray, Jon 87.8 1 0.5181118748 91.4  
## 39 Kikuchi, Yusei 91.4 0 0.5173887574 90.5  
## 882 Darvish, Yu 88.0 1 0.5170119405 87.4  
## 2436 BerrÃ­os, JosÃ© 86.9 1 0.5157237557 88.8  
## 2030 Maton, Phil 86.8 1 0.5156414456 86.7  
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## 4698 Keuchel, Dallas 85.6 1 0.5148371412 86.3  
## 3286 Pivetta, Nick 88.3 0 0.5146902106 90.2  
## 2441 GonzÃ¡lez, Gio 87.5 1 0.5145488095 85.3  
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## 3968 Moore, Matt 88.4 0 0.5098285990 89.6  
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## 33 Minor, Mike 87.9 1 0.5083134594 87.0  
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## 457 Antone, Tejay 87.7 1 0.5078098538 86.4  
## 1686 Richards, Trevor 87.8 1 0.5076431319 86.5  
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## 3272 Gibson, Kyle 88.3 0 0.5074140851 88.2  
## 8 BerrÃ­os, JosÃ© 88.0 1 0.5072662218 89.4  
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## 2507 Gray, Sonny 88.7 0 0.5056681266 89.1  
## 4754 Harang, Aaron 90.0 0 0.5054641171 87.0  
## 3262 Nola, Aaron 85.7 1 0.5033466773 86.2  
## 3254 Arrieta, Jake 87.4 1 0.5033347063 89.2  
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## 3216 Estrada, Marco 86.9 1 0.5028313401 84.7  
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## 4769 Sabathia, CC 87.7 1 0.5001471374 86.9  
## 1638 Mikolas, Miles 88.3 0 0.4995839088 88.6  
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## 3279 Kershaw, Clayton 85.3 1 0.4900123906 88.0  
## 2460 Bundy, Dylan 89.0 0 0.4892670687 86.7  
## 68 Richards, Garrett 91.2 0 0.4891104829 90.4  
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## 1883 Eickhoff, Jerad 89.0 0 0.4880727935 83.1  
## 3997 Iwakuma, Hisashi 88.6 0 0.4867126424 84.5  
## 36 Miley, Wade 84.3 1 0.4861499334 84.5  
## 72 Gonzales, Marco 87.6 1 0.4857363336 84.1  
## 2440 Foltynewicz, Mike 88.6 0 0.4852375608 91.6  
## 3253 Nelson, Jimmy 85.8 1 0.4833843342 91.0  
## 4756 Buehrle, Mark 86.7 1 0.4803252642 81.0  
## 42 Lynn, Lance 87.3 1 0.4797352031 91.3  
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## 4729 Zimmermann, Jordan 87.1 1 0.4715352351 90.4  
## 25 Scherzer, Max 87.0 1 0.4714436636 89.2  
## 4736 HernÃ¡ndez, FÃ©lix 88.5 0 0.4711350851 88.3  
## 1690 GermÃ¡n, Domingo 89.4 0 0.4704556456 88.0  
## 4741 deGrom, Jacob 87.2 1 0.4694307260 92.2  
## 45 Montgomery, Jordan 87.3 1 0.4692552929 86.4  
## 70 Singer, Brady 88.1 1 0.4682626726 90.3  
## 3217 Santana, Ervin 85.9 1 0.4676484284 89.0  
## 1733 Peralta, Freddy 89.6 0 0.4670911413 90.2  
## 11 Giolito, Lucas 87.3 1 0.4670320299 87.8  
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## 4718 Greinke, Zack 87.0 1 0.4630294601 89.0  
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## 3991 Happ, J.A. 89.3 0 0.4619971335 89.9  
## 1662 Fried, Max 88.7 0 0.4613394266 87.2  
## 19 Eovaldi, Nathan 87.9 1 0.4608084689 90.2  
## 4722 Gallardo, Yovani 88.2 1 0.4604026891 88.3  
## 1018 Stratton, Chris 89.7 0 0.4599262355 88.6  
## 22 Woodruff, Brandon 85.2 1 0.4597039767 92.0  
## 2525 Kennedy, Ian 89.3 0 0.4589787302 88.0  
## 4759 Heston, Chris 88.5 0 0.4587137431 84.9  
## 2481 Minor, Mike 87.9 1 0.4586550668 88.9  
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## 52 Garcia, Luis 87.5 1 0.4543885088 87.3  
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## 1669 Lucchesi, Joey 87.8 1 0.4534232036 86.2  
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## 2470 Williams, Trevor 86.6 1 0.4502749666 87.9  
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## 4006 Sanchez, Aaron 90.0 0 0.4474782646 92.1  
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## 1135 Maton, Phil 82.7 1 0.4419073024 87.5  
## 69 Means, John 87.2 1 0.4417921976 87.3  
## 1699 Clevinger, Mike 86.3 1 0.4414942370 88.6  
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## 2633 Jansen, Kenley 84.3 1 0.4402699228 91.7  
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## 1629 Roark, Tanner 88.7 0 0.4384517930 87.9  
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## 2340 Venditte, Pat 85.4 1 0.4356863423 79.3  
## 4 Ray, Robbie 90.2 0 0.4356790360 91.9  
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## 2516 Lucchesi, Joey 89.1 0 0.4189204777 86.4  
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## 1685 Sanchez, Aaron 89.6 0 0.4156810452 89.0  
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## 4051 Wacha, Michael 88.1 1 0.4145246607 89.7  
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## 1005 Antone, Tejay 86.7 1 0.4138063968 88.0  
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## 2453 Quintana, JosÃ© 88.7 0 0.3966182084 87.3  
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## 4099 Young, Chris 89.6 0 0.3820123981 85.3  
## 3318 Adleman, Tim 87.4 1 0.3816929971 86.4  
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## 3966 Odorizzi, Jake 89.8 0 0.3805233031 88.8  
## 2522 Zimmermann, Jordan 88.9 0 0.3803510871 87.7  
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## 4828 Bolsinger, Mike 88.0 1 0.3794491178 83.3  
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## 2487 Estrada, Marco 87.5 1 0.3792872084 83.1  
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## 1628 Nova, IvÃ¡n 88.5 0 0.3732933063 88.5  
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## 4098 Karns, Nate 89.4 0 0.3728318927 88.6  
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## 37 Davies, Zach 88.2 1 0.3695019892 83.8  
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## 3350 Wheeler, Zack 87.4 1 0.3644096030 90.8  
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## 23 Hendricks, Kyle 85.5 1 0.3585963493 83.6  
## 27 Keuchel, Dallas 88.0 1 0.3584921581 84.1  
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## 1718 Beeks, Jalen 88.1 1 0.1857536903 87.0  
## 2069 Adams, Chance 89.9 0 0.1856700501 87.6  
## 1710 ChacÃ­n, Jhoulys 88.9 0 0.1853693091 84.4  
## 1137 Soria, Joakim 88.0 1 0.1849350158 87.8  
## 1800 Diekman, Jake 87.4 1 0.1847622184 90.8  
## 51 Walker, Taijuan 88.6 0 0.1847534083 90.5  
## 2180 McGowin, Kyle 92.0 0 0.1843060137 87.3  
## 1278 Ponce, Cody 88.7 0 0.1839152405 88.1  
## 3499 McAllister, Zach 89.5 0 0.1837817048 92.5  
## 1467 Perdomo, Angel 78.7 1 0.1837088374 90.8  
## 718 Yamamoto, Jordan 84.3 1 0.1836090657 85.5  
## 892 Carrasco, Carlos 87.4 1 0.1835504342 89.3  
## 5200 Wainwright, Adam 84.7 1 0.1833044944 84.8  
## 3644 Smith, Josh A. 87.9 1 0.1832117019 87.5  
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## 952 Peterson, David 86.6 1 0.1828527836 87.3  
## 1232 Wick, Rowan 90.1 0 0.1827983216 88.3  
## 2546 DeSclafani, Anthony 88.6 0 0.1827489821 90.5  
## 1977 Shafer, Justin 88.0 1 0.1826344939 91.0  
## 2497 Tanaka, Masahiro 88.8 0 0.1824300087 86.7  
## 4071 Pelfrey, Mike 88.5 0 0.1823662706 89.7  
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## 981 Musgrove, Joe 85.1 1 0.1822716410 86.8  
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## 264 GarcÃ­a, JarlÃ­n 88.7 0 0.1818543882 88.5  
## 4867 McAllister, Zach 88.4 0 0.1817026150 92.9  
## 1720 Houser, Adrian 86.6 1 0.1816268619 91.1  
## 531 Morgan, Adam 86.7 1 0.1815770044 85.9  
## 190 Whitlock, Garrett 87.6 1 0.1813726648 91.3  
## 629 Barraclough, Kyle 87.5 1 0.1813200972 85.2  
## 3374 Stammen, Craig 86.6 1 0.1812540548 88.7  
## 4089 Anderson, Tyler 84.3 1 0.1811287500 87.3  
## 4043 Salazar, Danny 91.2 0 0.1808651758 92.1  
## 2636 RodrÃ­guez, Richard 86.7 1 0.1808003100 89.9  
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## 234 Matzek, Tyler 87.3 1 0.1804091688 92.6  
## 3334 MartÃ­nez, Nick 87.0 1 0.1803824271 88.8  
## 4105 Taillon, Jameson 88.5 0 0.1802729177 90.3  
## 1199 Ginkel, Kevin 89.9 0 0.1798953604 90.9  
## 1366 Kelly, Joe 88.2 1 0.1797094397 90.7  
## 926 Mills, Alec 86.6 1 0.1796649340 83.7  
## 3362 Andriese, Matt 89.3 0 0.1789893366 87.9  
## 1683 Norris, Daniel 90.7 0 0.1788279382 87.3  
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## 4840 Iglesias, Raisel 88.0 1 0.1782551874 88.7  
## 1418 Farrell, Luke 87.1 1 0.1781083295 84.4  
## 235 Smith, Will 88.5 0 0.1777698832 86.7  
## 1956 Cimber, Adam 87.8 1 0.1776633667 82.0  
## 387 Smith, Burch 91.1 0 0.1776182931 89.4  
## 116 Arrieta, Jake 90.2 0 0.1775189986 88.6  
## 3273 JimÃ©nez, Ubaldo 89.1 0 0.1774795843 86.9  
## 348 Taylor, Josh 88.1 1 0.1767293052 90.4  
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## 1042 Jackson, Luke 90.0 0 0.1765727477 88.7  
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## 1811 Chen, Wei-Yin 89.5 0 0.1756051153 86.0  
## 144 Alexander, Tyler 88.5 0 0.1753435282 87.0  
## 368 Hernandez, Darwinzon 87.0 1 0.1751708812 91.7  
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## 3915 Bailey, Andrew 87.1 1 0.1748531618 87.5  
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## 1509 Palumbo, Joe 85.0 1 0.1735689273 87.2  
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## 375 Lugo, Seth 88.2 1 0.1730944809 88.6  
## 347 Leone, Dominic 87.6 1 0.1729670155 90.8  
## 1976 Smeltzer, Devin 89.4 0 0.1719028844 84.2  
## 523 Ramirez, Yohan 85.0 1 0.1717790466 89.6  
## 3516 Vincent, Nick 85.5 1 0.1717765256 88.3  
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## 903 Valdez, Framber 91.1 0 0.1715323830 88.5  
## 1017 McKenzie, Triston 86.0 1 0.1712895623 88.8  
## 4796 Ray, Robbie 89.6 0 0.1710506456 90.9  
## 1915 Cole, Taylor 86.8 1 0.1708896796 89.4  
## 4740 Koehler, Tom 89.2 0 0.1706245475 88.3  
## 2601 Ryu, Hyun Jin 86.0 1 0.1705734224 84.6  
## 2822 Melancon, Mark 88.8 0 0.1702175016 88.5  
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## 1029 Valdez, Phillips 84.8 1 0.1696663149 88.0  
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## 1095 Yardley, Eric 88.5 0 0.1677653978 82.7  
## 310 Santana, Dennis 87.0 1 0.1676237735 90.1  
## 539 Knebel, Corey 90.5 0 0.1675933698 89.4  
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## 4104 Cain, Matt 88.7 0 0.1668332335 87.0  
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## 1516 Edwards Jr., Carl 91.6 0 0.1664770893 88.4  
## 798 Kickham, Mike 97.5 0 0.1662464984 82.5  
## 1864 Bedrosian, Cam 88.7 0 0.1658112550 87.9  
## 355 Davis, Wade 89.4 0 0.1656916743 89.1  
## 1486 Adams, Austin 84.4 1 0.1656685345 88.0  
## 462 Ramirez, NoÃ© 88.4 0 0.1656578444 83.7  
## 2907 May, Trevor 88.1 1 0.1654946955 89.3  
## 3340 Liriano, Francisco 87.4 1 0.1653601181 89.2  
## 4889 Allen, Cody 88.0 1 0.1651286928 92.0  
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## 1206 Chatwood, Tyler 90.2 0 0.1644289434 90.6  
## 1224 Petit, Yusmeiro 84.8 1 0.1643888382 84.3  
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## 1879 Duffey, Tyler 89.4 0 0.1639799754 88.6  
## 874 Giolito, Lucas 86.8 1 0.1636141652 88.1  
## 1185 Baragar, Caleb 90.1 0 0.1634967784 90.9  
## 3373 Jackson, Edwin 86.9 1 0.1633233364 90.1  
## 1080 Green, Chad 87.1 1 0.1632399474 92.7  
## 5314 Zito, Barry 86.0 1 0.1631263359 79.2  
## 1490 Foltynewicz, Mike 85.1 1 0.1631003210 84.2  
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## 4764 Leake, Mike 88.7 0 0.1626745190 88.4  
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## 4767 Anderson, Brett 88.1 1 0.1620407183 86.5  
## 2709 Arano, VÃ­ctor 88.1 1 0.1619510345 88.3  
## 4810 Rodriguez, Eduardo 87.2 1 0.1618327383 92.2  
## 2517 Fulmer, Michael 89.1 0 0.1617798342 92.2  
## 3581 Brebbia, John 87.8 1 0.1616344359 89.3  
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## 4820 Iwakuma, Hisashi 88.5 0 0.1613730566 85.4  
## 4157 Villanueva, Carlos 89.5 0 0.1599389230 84.2  
## 824 Nittoli, Vinny 104.2 0 0.1595220167 90.9  
## 3688 Johnson, Brian 86.8 1 0.1592275151 82.2  
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## 1862 Martin, Brett 89.8 0 0.1585630829 89.1  
## 2861 Burnes, Corbin 88.4 0 0.1582620551 91.2  
## 2830 Fry, Paul 83.6 1 0.1582208301 88.0  
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## 1203 Raley, Brooks 80.8 1 0.1579248026 85.7  
## 2733 Miller, Justin 88.0 1 0.1575994385 91.7  
## 4113 Jackson, Edwin 89.4 0 0.1575965713 89.1  
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## 276 Hill, Tim 85.3 1 0.1571859194 90.5  
## 1131 Curtiss, John 92.0 0 0.1570762189 90.2  
## 939 Javier, Cristian 86.5 1 0.1570376655 87.6  
## 1825 Ramirez, NoÃ© 87.3 1 0.1568966293 83.2  
## 254 Kimbrel, Craig 90.5 0 0.1567504815 92.3  
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## 1247 Pivetta, Nick 91.3 0 0.1564044453 87.7  
## 1777 Chatwood, Tyler 87.5 1 0.1562928691 93.0  
## 3397 Barnes, Matt 86.3 1 0.1558472957 89.7  
## 2074 Hall, Matt 88.0 1 0.1552852649 86.4  
## 2850 CedeÃ±o, Xavier 88.2 1 0.1552427918 83.9  
## 4761 Locke, Jeff 87.1 1 0.1549460218 87.6  
## 1880 Claudio, Alex 85.8 1 0.1547409113 79.6  
## 1616 Castillo, Luis 87.0 1 0.1546420435 91.6  
## 258 Kremer, Dean 92.8 0 0.1544663510 88.0  
## 1983 Hembree, Heath 89.0 0 0.1543797854 90.9  
## 586 Buchter, Ryan 90.9 0 0.1543693295 84.7  
## 3822 Roe, Chaz 86.1 1 0.1542289125 86.7  
## 1749 Stripling, Ross 88.8 0 0.1541788990 85.6  
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## 2621 Stammen, Craig 87.9 1 0.1537315471 89.4  
## 289 Chafin, Andrew 86.8 1 0.1537037674 89.4  
## 3438 Norris, Bud 88.7 0 0.1535676937 90.8  
## 206 Diekman, Jake 89.1 0 0.1534633051 91.4  
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## 4305 Claudio, Alex 87.4 1 0.1531110928 79.2  
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## 1093 May, Trevor 91.1 0 0.1529733754 91.4  
## 3784 Kittredge, Andrew 85.4 1 0.1529057601 87.1  
## 2047 Sobotka, Chad 90.4 0 0.1527238633 91.2  
## 1938 Miller, Shelby 89.6 0 0.1526742369 90.3  
## 2553 Stroman, Marcus 89.1 0 0.1522883444 89.3  
## 1996 Brigham, Jeff 88.0 1 0.1522055046 90.0  
## 3402 Minor, Mike 85.4 1 0.1520923387 90.6  
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## 1431 Crismatt, Nabil 91.3 0 0.1516226009 82.7  
## 4202 Siegrist, Kevin 85.3 1 0.1515586022 89.9  
## 3380 Velasquez, Vince 89.1 0 0.1515159214 90.6  
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## 3691 SolÃ­s, Sammy 87.0 1 0.1507057528 88.8  
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## 1745 Holland, Derek 90.8 0 0.1456602926 88.0  
## 1743 GonzÃ¡lez, Gio 87.2 1 0.1455285492 84.7  
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## 2547 Moore, Matt 90.6 0 0.1453477504 88.7  
## 1049 Kelly, Merrill 88.5 0 0.1451044401 88.6  
## 371 Long, Sammy 88.7 0 0.1450593367 83.9  
## 3640 Scott, Robby 82.5 1 0.1450442984 83.4  
## 3951 Brantly, Rob 84.6 1 0.1449979917 65.7  
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## 4148 Blair, Aaron 88.9 0 0.1432093541 87.3  
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## 2736 Cole, A.J. 88.1 1 0.1405851515 86.5  
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## 4338 CedeÃ±o, Xavier 88.3 0 0.1380131083 86.6  
## 5117 LÃ³pez, Javier 85.9 1 0.1379300301 82.9  
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## 5056 Betancourt, Rafael 90.1 0 0.1376325009 88.2  
## 1707 Woodruff, Brandon 85.8 1 0.1376084561 93.1  
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## 4082 Cole, Gerrit 87.5 1 0.1332519538 92.6  
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## 248 Plutko, Adam 91.0 0 0.1331952840 88.4  
## 5115 GonzÃ¡lez, Severino 87.5 1 0.1330076285 86.5  
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## 2795 Kelley, Shawn 86.3 1 0.1317719418 86.3  
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## 4381 Hoffman, Jeff 89.1 0 0.1315992530 89.4  
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## 415 Mikolas, Miles 86.4 1 0.1303932567 88.2  
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## 4183 Ramos, AJ 87.0 1 0.1294686278 86.3  
## 3037 Hoffman, Jeff 87.6 1 0.1294346458 88.5  
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## 4795 Tanaka, Masahiro 89.1 0 0.1284376899 88.1  
## 4245 Vincent, Nick 87.0 1 0.1283260661 88.4  
## 209 Woodford, Jake 89.4 0 0.1282998157 87.4  
## 924 Anderson, Tyler 85.7 1 0.1282607317 85.8  
## 3382 Lyles, Jordan 87.3 1 0.1275793508 90.5  
## 211 Smith, Riley 88.6 0 0.1275695353 89.0  
## 2078 Allen, Cody 94.3 0 0.1275144530 87.8  
## 320 Watson, Tony 85.1 1 0.1274984191 88.0  
## 377 Curtiss, John 91.2 0 0.1274178400 91.3  
## 4858 Hale, David 89.4 0 0.1272400894 87.1  
## 279 King, Michael 88.7 0 0.1270719515 90.5  
## 317 Kennedy, Ian 90.9 0 0.1269793408 92.4  
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## 3743 Ã\201lvarez, Dario 85.4 1 0.1267666177 85.9  
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## 3465 Duensing, Brian 85.5 1 0.1266308579 85.9  
## 2634 Betances, Dellin 85.0 1 0.1264349075 91.2  
## 4883 Soria, Joakim 87.1 1 0.1264316646 88.9  
## 3439 Hudson, Daniel 85.1 1 0.1263608109 91.8  
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## 544 May, Dustin 88.0 1 0.1262382924 94.5  
## 80 Plesac, Zach 90.0 0 0.1259748169 88.3  
## 513 Saucedo, Tayler 87.9 1 0.1257526159 89.7  
## 1951 Kittredge, Andrew 86.9 1 0.1257061569 92.0  
## 1265 Schreiber, John 89.3 0 0.1252464942 84.9  
## 965 Castellani, Ryan 90.9 0 0.1250920151 87.8  
## 2071 Flynn, Brian 90.2 0 0.1249161714 87.0  
## 4119 Delgado, Randall 87.6 1 0.1248854236 88.6  
## 912 Maeda, Kenta 84.4 1 0.1247117477 85.5  
## 2791 Darvish, Yu 87.6 1 0.1242930518 90.2  
## 3588 Bedrosian, Cam 90.0 0 0.1241528664 89.9  
## 2727 Reed, Addison 88.4 0 0.1237292882 88.7  
## 2496 Romano, Sal 88.2 1 0.1232213199 91.6  
## 4343 Belisle, Matt 87.4 1 0.1230857865 88.0  
## 2694 Rogers, Taylor 88.3 0 0.1227942099 87.1  
## 4777 Lohse, Kyle 88.0 1 0.1225526046 85.3  
## 2176 Romano, Jordan 87.8 1 0.1224592790 91.0  
## 786 Bush, Matt 89.2 0 0.1224099007 89.9  
## 1962 Toussaint, Touki 87.5 1 0.1223796598 87.4  
## 3494 Strickland, Hunter 87.0 1 0.1223154329 92.0  
## 3424 Green, Chad 90.0 0 0.1223064648 93.0  
## 1831 Gant, John 87.0 1 0.1221595115 90.4  
## 2743 Kela, Keone 87.6 1 0.1220034754 91.8  
## 993 Matz, Steven 90.9 0 0.1217800705 89.1  
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## 168 Quintana, JosÃ© 90.0 0 0.1204940199 87.4  
## 1227 Johnson, Pierce 89.1 0 0.1203855548 90.0  
## 3538 Coulombe, Danny 88.9 0 0.1203801886 85.8  
## 4217 Rogers, Taylor 89.7 0 0.1201645562 86.5  
## 4860 Siegrist, Kevin 88.5 0 0.1197316698 92.1  
## 402 Smith, Joe 86.7 1 0.1196593252 83.0  
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## 3505 Ross, Tyson 85.8 1 0.1185252411 88.9  
## 658 Hoyt, James 87.9 1 0.1184180723 86.7  
## 1902 Wisler, Matt 88.3 0 0.1183558669 86.2  
## 151 Manning, Matt 91.1 0 0.1179656469 89.8  
## 603 Frankoff, Seth 81.8 1 0.1177391981 87.4  
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## 414 Keller, Kyle 90.1 0 0.1175022881 88.7  
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## 4862 Doubront, Felix 89.3 0 0.1173620622 87.6  
## 3692 Espino, Paolo 86.7 1 0.1173189620 83.4  
## 2620 DÃ­az, Edwin 87.8 1 0.1173184939 94.2  
## 4607 Cuevas, William 79.8 1 0.1172872078 86.1  
## 2659 Sewald, Paul 87.8 1 0.1170074084 87.1  
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## 2293 Rodgers, Brady 89.6 0 0.1165942968 86.3  
## 1717 Price, David 88.2 1 0.1165743957 89.0  
## 559 Perdomo, Angel 89.2 0 0.1164972446 91.0  
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## 3370 Pruitt, Austin 88.2 1 0.1164139696 87.9  
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## 4661 Gimenez, Chris 88.0 1 0.1163707035 70.6  
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## 2580 Hellickson, Jeremy 86.8 1 0.1161506484 84.3  
## 1803 Valdez, Framber 89.5 0 0.1158040664 88.1  
## 4118 RamÃ­rez, Erasmo 88.3 0 0.1156817023 88.9  
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## 4957 Boyd, Matthew 89.5 0 0.1141379991 85.8  
## 4763 Odorizzi, Jake 88.2 1 0.1133789184 88.4  
## 4347 SolÃ­s, Sammy 88.6 0 0.1132108301 89.8  
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## 3698 Richards, Garrett 85.7 1 0.1128484032 92.2  
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## 2592 Miley, Wade 86.5 1 0.1119118189 85.0  
## 270 Chapman, Aroldis 87.1 1 0.1117368736 93.9  
## 3556 Milone, Tommy 87.1 1 0.1116142898 84.0  
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## 1210 Claudio, Alex 81.1 1 0.1104660574 78.7  
## 1345 Leone, Dominic 87.0 1 0.1104296136 89.9  
## 4323 Coulombe, Danny 88.0 1 0.1102312990 85.2  
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## 5223 Furbush, Charlie 85.3 1 0.1098841087 86.8  
## 478 Ellis, Chris 92.1 0 0.1098721142 89.3  
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## 1760 Hendriks, Liam 89.5 0 0.1098010819 93.8  
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## 4803 Wilson, C.J. 89.9 0 0.1092916474 87.5  
## 434 Mantiply, Joe 85.1 1 0.1091249712 86.6  
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## 3714 Miller, Shelby 86.6 1 0.1086130024 90.5  
## 2563 Senzatela, Antonio 88.5 0 0.1085138389 89.7  
## 1944 Davis, Wade 89.4 0 0.1083824445 89.7  
## 3425 Sewald, Paul 88.3 0 0.1083818940 88.3  
## 3696 Armstrong, Shawn 86.8 1 0.1083361105 91.4  
## 1893 Erlin, Robbie 87.9 1 0.1083221660 86.0  
## 2645 Kimbrel, Craig 88.6 0 0.1081802043 93.4  
## 558 Scrubb, Andre 89.0 0 0.1080246566 87.9  
## 1171 Woodford, Jake 90.0 0 0.1079935416 87.0  
## 3838 Wilkerson, Aaron 81.6 1 0.1079657611 85.2  
## 3225 MartÃ­nez, Carlos 86.8 1 0.1078142257 91.4  
## 466 Head, Louis 87.2 1 0.1072598805 88.4  
## 1101 Bard, Daniel 90.1 0 0.1071973349 93.2  
## 3335 Salazar, Danny 88.5 0 0.1070503091 91.3  
## 660 Junk, Janson 87.6 1 0.1065892785 86.6  
## 1744 BarrÃ­a, Jaime 89.9 0 0.1065058361 86.6  
## 1502 Meisinger, Ryan 84.2 1 0.1063596068 88.4  
## 2698 Norris, Bud 87.6 1 0.1063472781 92.0  
## 2759 AvilÃ¡n, Luis 84.7 1 0.1062955368 82.9  
## 5372 Eveland, Dana 90.4 0 0.1062897668 84.8  
## 1955 Buchter, Ryan 88.1 1 0.1062896938 88.7  
## 3422 Kimbrel, Craig 91.9 0 0.1061243013 94.9  
## 1725 Quantrill, Cal 87.3 1 0.1059605890 90.4  
## 1111 Holder, Jonathan 86.9 1 0.1058452143 88.8  
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## 2175 Sherfy, Jimmie 86.7 1 0.1055821440 83.4  
## 4115 Robles, Hansel 89.1 0 0.1055149791 92.2  
## 4093 Garza, Matt 89.3 0 0.1054465842 89.2  
## 1887 Swanson, Erik 91.4 0 0.1054426548 90.4  
## 1999 Carpenter, Ryan 90.7 0 0.1053847410 84.9  
## 3758 Baumann, Buddy 87.6 1 0.1051184201 88.4  
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## 833 Betances, Dellin 89.3 0 0.1049674156 87.1  
## 4256 Kelley, Shawn 89.5 0 0.1048785603 89.0  
## 771 Martinez, Seth 88.7 0 0.1048340798 86.9  
## 1716 Keuchel, Dallas 88.8 0 0.1048298283 85.5  
## 1474 Sobotka, Chad 95.0 0 0.1047052116 89.8  
## 823 Vasquez, Andrew 95.8 0 0.1046618209 83.0  
## 4156 Soria, Joakim 87.5 1 0.1046167284 88.7  
## 2639 Davies, Zach 88.0 1 0.1044128986 85.9  
## 2569 Kuhl, Chad 90.2 0 0.1042785411 91.7  
## 4328 Dunn, Mike 86.6 1 0.1041330060 91.7  
## 166 Moore, Matt 87.2 1 0.1041133377 88.5  
## 5288 Castro, Simon 88.8 0 0.1040548858 88.6  
## 1012 Anderson, Ian 86.1 1 0.1034502160 89.1  
## 1894 Margevicius, Nick 88.5 0 0.1032726397 83.2  
## 3351 Pineda, Michael 87.1 1 0.1031709671 89.9  
## 1387 Thornburg, Tyler 91.1 0 0.1029380294 87.6  
## 2002 Hernandez, Darwinzon 86.5 1 0.1028689487 92.2  
## 4880 Chapman, Aroldis 84.3 1 0.1028460711 96.9  
## 4155 Reed, Addison 88.6 0 0.1026889141 91.1  
## 1790 Lamet, Dinelson 87.7 1 0.1026502034 91.4  
## 4142 Maurer, Brandon 89.2 0 0.1024134412 91.0  
## 3322 Gsellman, Robert 86.0 1 0.1023538654 90.0  
## 2828 Kittredge, Andrew 90.9 0 0.1022511064 87.9  
## 3489 Soria, Joakim 86.8 1 0.1021921654 87.9  
## 3726 Flaherty, Jack 84.3 1 0.1021545863 88.5  
## 3537 Morgan, Adam 86.5 1 0.1020674566 86.0  
## 1856 Moronta, Reyes 87.6 1 0.1019913607 91.9  
## 4513 Zastryzny, Rob 87.3 1 0.1019665896 85.9  
## 542 Feliz, Michael 91.2 0 0.1019330747 88.8  
## 1478 Kelley, Trevor 87.8 1 0.1019315706 86.8  
## 2010 Barnes, Jacob 89.2 0 0.1019217030 90.8  
## 2681 Magill, Matt 91.1 0 0.1016966123 91.1  
## 321 Andriese, Matt 90.7 0 0.1016462745 88.0  
## 1997 Hardy, Blaine 85.4 1 0.1015917286 81.6  
## 3028 Hall, Matt 85.9 1 0.1015347816 84.1  
## 3750 Rowley, Chris 84.1 1 0.1014657230 86.0  
## 1050 Staumont, Josh 94.4 0 0.1012306190 93.7  
## 971 Means, John 88.2 1 0.1012144388 89.0  
## 4865 Clippard, Tyler 87.0 1 0.1011690461 85.6  
## 3447 Torres, JosÃ© 89.6 0 0.1009670542 92.2  
## 4812 Morton, Charlie 88.9 0 0.1008997611 88.5  
## 4547 Rodgers, Brady 88.3 0 0.1008860582 85.1  
## 4802 MartÃ­nez, Nick 88.8 0 0.1007790497 86.7  
## 1214 Melancon, Mark 86.3 1 0.1006694236 87.7  
## 575 Warren, Art 83.5 1 0.1006004803 89.6  
## 4847 NuÃ±o, Vidal 88.4 0 0.1005931332 85.8  
## 934 Eflin, Zach 86.4 1 0.1005847685 90.5  
## 936 Roark, Tanner 89.0 0 0.1002255856 85.6  
## 1968 GarcÃ­a, JarlÃ­n 88.2 1 0.1001756365 88.4  
## 989 Ponce de Leon, Daniel 88.1 1 0.1001347476 88.8  
## 4060 Nicasio, Juan 88.1 1 0.1000392390 91.8  
## 4333 Hahn, Jesse 87.6 1 0.1000129616 90.0  
## 1066 Plutko, Adam 88.0 1 0.0999827300 87.4  
## 3427 DÃ­az, Edwin 87.2 1 0.0999022781 94.4  
## 3453 Davis, Wade 85.1 1 0.0997841749 90.8  
## 536 Jackson, Jay 88.9 0 0.0995043191 88.3  
## 1161 Widener, Taylor 86.8 1 0.0994211140 91.5  
## 246 Clase, Emmanuel 86.1 1 0.0993923270 97.8  
## 1909 Gearrin, Cory 88.6 0 0.0992428938 87.9  
## 799 Strop, Pedro 84.2 1 0.0991637315 86.9  
## 367 Fairbanks, Pete 87.5 1 0.0991425071 92.2  
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## 3080 McGowin, Kyle 91.3 0 0.0987893519 86.8  
## 4134 Hernandez, David 88.6 0 0.0983266364 89.9  
## 1183 PatiÃ±o, Luis 87.8 1 0.0981266788 93.2  
## 1355 Brogdon, Connor 90.1 0 0.0980330050 90.3  
## 1927 Webb, Tyler 86.4 1 0.0979985083 85.9  
## 1738 Canning, Griffin 87.6 1 0.0979235368 89.9  
## 2247 Yardley, Eric 87.2 1 0.0974582350 81.6  
## 4306 Ramos, CesÃ¡r 88.1 1 0.0974518839 83.1  
## 2704 Hunter, Tommy 87.4 1 0.0974383039 93.2  
## 5042 Capuano, Chris 87.7 1 0.0974077342 83.8  
## 2150 Winkler, Dan 89.7 0 0.0969892180 89.4  
## 2214 Suter, Brent 82.1 1 0.0967462873 85.7  
## 2022 Wieck, Brad 90.7 0 0.0956394186 90.5  
## 2685 Strahm, Matt 86.4 1 0.0955531173 89.5  
## 808 Dickson, Brandon 93.3 0 0.0954892540 89.2  
## 3469 Martes, Francis 87.8 1 0.0953874229 91.2  
## 4249 Ã\201lvarez, JosÃ© 86.4 1 0.0952792677 86.5  
## 1252 LÃ³pez, Yoan 90.5 0 0.0952519768 91.0  
## 1212 Misiewicz, Anthony 88.4 0 0.0951932837 89.1  
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## 169 Reyes, Alex 86.6 1 0.0948430218 91.8  
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## 663 Nelson, Kyle 84.1 1 0.0944214231 87.0  
## 5012 GarcÃ­a, Yimi 87.5 1 0.0943447732 90.7  
## 3663 Kelley, Shawn 91.4 0 0.0942787495 87.7  
## 4126 Givens, Mychal 85.3 1 0.0940072924 91.5  
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## 767 Castellani, Ryan 95.2 0 0.0936244872 85.5  
## 5062 Vargas, Jason 87.1 1 0.0931753247 84.5  
## 717 Snead, Kirby 88.6 0 0.0931561791 86.8  
## 2076 Thorpe, Lewis 89.0 0 0.0926752525 86.0  
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## 4805 Shoemaker, Matt 87.4 1 0.0922367764 87.0  
## 2915 Thornburg, Tyler 88.5 0 0.0921117792 87.3  
## 364 White, Mitch 88.0 1 0.0917894560 89.4  
## 1834 Givens, Mychal 88.6 0 0.0916564281 92.5  
## 3605 Giolito, Lucas 86.9 1 0.0914946907 87.9  
## 274 Holland, Greg 88.3 0 0.0912555721 87.6  
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## 3407 McGowan, Dustin 88.1 1 0.0910896937 91.0  
## 3268 Cashner, Andrew 86.9 1 0.0909889900 90.6  
## 5349 Johnson, Brian 91.7 0 0.0909303914 80.5  
## 3475 Kontos, George 85.6 1 0.0909260728 87.4  
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## 3443 Leone, Dominic 86.5 1 0.0908352948 91.3  
## 192 Fulmer, Michael 86.5 1 0.0908169912 92.5  
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## 4822 Phelps, David 89.6 0 0.0907004103 88.0  
## 277 Feyereisen, J.P. 87.9 1 0.0903468254 90.1  
## 3179 GÃ³mez, Carlos 81.3 1 0.0901805761 83.2  
## 4176 Wilson, Alex 88.2 1 0.0901364409 89.9  
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## 2534 RodÃ³n, Carlos 87.7 1 0.0899185014 89.9  
## 1301 Bedrosian, Cam 90.8 0 0.0898419099 87.0  
## 155 Shaw, Bryan 88.4 0 0.0898320758 90.9  
## 5092 Janssen, Casey 87.5 1 0.0892523265 85.8  
## 756 Johnson, DJ 82.8 1 0.0890602641 89.8  
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## 3108 Eickhoff, Jerad 92.5 0 0.0887547508 85.1  
## 3497 Middleton, Keynan 88.1 1 0.0886492806 93.7  
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## 3522 Cole, A.J. 87.4 1 0.0883114992 88.6  
## 4083 Chen, Wei-Yin 89.5 0 0.0882427904 87.6  
## 1020 Mazza, Chris 86.4 1 0.0878958513 88.0  
## 1158 PagÃ¡n, Emilio 89.2 0 0.0876928601 91.4  
## 2796 SolÃ­s, Sammy 89.1 0 0.0875785385 89.0  
## 173 Gallegos, Giovanny 88.2 1 0.0874869800 90.3  
## 4405 Roe, Chaz 90.3 0 0.0874863883 87.8  
## 3541 Goody, Nick 88.6 0 0.0874143720 87.7  
## 3521 Infante, Gregory 87.6 1 0.0872895060 90.9  
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## 1388 Taylor, Josh 88.4 0 0.0867773535 90.1  
## 4406 Floyd, Gavin 90.5 0 0.0865171306 88.5  
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## 2767 Samardzija, Jeff 86.5 1 0.0863110230 88.5  
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## 3652 SuÃ¡rez, Albert 86.5 1 0.0859807226 86.4  
## 2661 Soria, Joakim 84.6 1 0.0858419136 88.2  
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## 4608 Scott, Robby 86.6 1 0.0852429798 81.6  
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## 4197 Clippard, Tyler 86.3 1 0.0851909757 85.4  
## 4951 Masterson, Justin 88.5 0 0.0849129400 85.1  
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## 891 BerrÃ­os, JosÃ© 88.2 1 0.0848023295 89.2  
## 3391 Iglesias, Raisel 86.1 1 0.0847369578 91.8  
## 1204 Ramirez, NoÃ© 86.5 1 0.0845309376 83.3  
## 3760 Beliveau, Jeff 89.7 0 0.0842839394 86.3  
## 4107 Montgomery, Mike 88.8 0 0.0841484122 88.6  
## 5304 Beachy, Brandon 89.8 0 0.0841365051 85.3  
## 1153 Reyes, Alex 83.7 1 0.0841144965 92.6  
## 1102 Guerra, Junior 83.7 1 0.0837602316 90.0  
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## 4356 Henderson, Jim 88.5 0 0.0836092801 92.3  
## 1820 Tomlin, Josh 88.8 0 0.0834565782 85.6  
## 2561 Wright Jr., Mike 89.5 0 0.0834271022 90.5  
## 3551 Chafin, Andrew 86.7 1 0.0833609797 89.2  
## 2499 Richard, Clayton 90.5 0 0.0832322669 87.1  
## 4425 Whalen, Rob 86.2 1 0.0831115661 86.8  
## 247 ChacÃ­n, Jhoulys 85.7 1 0.0827799116 87.5  
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## 4364 GonzÃ¡lez, Severino 87.7 1 0.0824970568 89.7  
## 424 Garrett, Braxton 85.6 1 0.0823495081 85.4  
## 3749 Therrien, Jesen 86.9 1 0.0823392823 88.7  
## 3606 Gonzales, Marco 88.3 0 0.0823235048 87.3  
## 448 Barnes, Jacob 89.4 0 0.0823194734 91.9  
## 225 Sulser, Cole 87.2 1 0.0819799123 88.9  
## 4110 Hand, Brad 88.2 1 0.0819190944 89.2  
## 3383 Swarzak, Anthony 87.5 1 0.0817432656 90.8  
## 4230 Chapman, Aroldis 87.7 1 0.0816487620 98.8  
## 2057 Olson, Tyler 84.5 1 0.0813406556 80.6  
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## 524 Rodriguez, Jefry 90.4 0 0.0808082901 91.4  
## 4291 Blazek, Michael 87.6 1 0.0807905502 87.4  
## 4815 Collmenter, Josh 86.0 1 0.0807544338 82.3  
## 3449 Gearrin, Cory 86.8 1 0.0806917326 88.6  
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## 1166 Paredes, Enoli 88.2 1 0.0800504265 92.3  
## 302 Cessa, Luis 86.3 1 0.0799411805 86.7  
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## 2935 Hart, Donnie 88.3 0 0.0796303788 83.1  
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## 1082 Brasier, Ryan 91.1 0 0.0407636800 92.4  
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## 413 Blackburn, Paul 89.9 0 0.0397840483 87.7  
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## 3682 Iwakuma, Hisashi 88.1 1 0.0393360552 81.4  
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## 1761 Cessa, Luis 88.3 0 0.0387032222 89.0  
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## 124 UreÃ±a, JosÃ© 90.4 0 0.0386231953 91.4  
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## 4188 Cingrani, Tony 87.7 1 0.0384622680 93.4  
## 3515 Robles, Hansel 88.1 1 0.0382376033 92.1  
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## 4439 Owens, Henry 88.0 1 0.0333984382 83.3  
## 1920 McCarthy, Kevin 89.8 0 0.0333737475 88.6  
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## 3445 Greene, Shane 87.7 1 0.0262783896 90.4  
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## 607 Thorpe, Lewis 88.7 0 0.0261698612 84.9  
## 3147 Gimenez, Chris 88.1 1 0.0261380072 67.8  
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## 5333 LaFromboise, Bobby 85.8 1 0.0261004511 84.0  
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## 2786 RamÃ­rez, Erasmo 89.4 0 0.0239492316 86.2  
## 1514 Kuhnel, Joel 88.3 0 0.0237641455 91.9  
## 811 Paulino, David 88.1 1 0.0232484231 88.5  
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## 1562 RamÃ­rez, Roel 102.0 0 0.0223742585 88.9  
## 4772 Ventura, Yordano 89.1 0 0.0223700376 92.5  
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## 216 Cisnero, JosÃ© 85.9 1 0.0221068785 93.9  
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## 5019 RodrÃ­guez, Francisco 86.6 1 0.0216171193 85.5  
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## 3467 Ramirez, JosÃ© 86.7 1 0.0137290766 93.9  
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## 5161 Guaipe, Mayckol 88.0 1 -0.0013006453 89.7  
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## 2385 Parra, Gerardo 88.4 0 -0.3779009858 89.0  
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## 2422 2470 6.05 91.31 -0.6 3257  
## 3230 2160 6.02 84.77 -0.6 3089  
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## 3960 2371 5.92 89.82 -0.8 3563  
## 1641 2586 6.08 92.48 -0.3 2838  
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## 3231 2140 6.17 86.25 -0.5 3085  
## 2746 2634 6.76 87.18 1.0 849  
## 4007 2092 6.78 87.44 0.5 2910  
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## 4715 2596 5.72 91.10 -1.3 3250  
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## 2628 2368 7.26 87.03 1.5 1157  
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## 3236 2230 6.28 89.75 0.0 3058  
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## 2480 2310 5.98 84.67 -0.6 2564  
## 2455 2244 6.76 93.17 0.9 2884  
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## 1615 2288 6.66 93.91 0.8 3159  
## 112 2577 6.30 86.33 -0.1 1764  
## 3256 2240 6.83 91.60 0.6 2742  
## 4703 1990 6.37 87.45 -0.3 3373  
## 3999 2285 6.61 91.22 0.3 2940  
## 4724 2208 6.04 87.85 -0.6 3185  
## 4445 2645 6.24 78.71 -0.4 404  
## 2423 2116 6.35 88.99 0.5 3250  
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## 3372 2300 6.57 79.84 0.0 1322  
## 2417 2302 5.94 88.43 -1.0 3493  
## 2595 2550 6.59 87.86 0.6 1272  
## 920 2564 7.52 92.50 0.9 964  
## 4036 1901 5.80 73.78 -1.2 2496  
## 50 2306 6.30 86.70 0.1 2460  
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## 3973 2366 6.07 90.89 -0.4 3190  
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## 4710 2121 6.42 88.62 -0.2 3298  
## 4011 2230 6.32 87.59 -0.6 2853  
## 2429 2428 6.06 92.37 -0.5 3152  
## 3314 2333 6.08 82.80 -0.8 2155  
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## 2474 2313 5.80 83.69 -1.1 2683  
## 4023 2288 6.67 91.40 0.3 2707  
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## 4786 2242 6.70 88.72 0.6 2441  
## 1659 2347 5.79 85.76 -0.7 2681  
## 2552 2317 6.18 82.07 -0.2 1710  
## 1651 2543 5.65 86.74 -0.9 2759  
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## 4708 2215 6.11 88.69 -0.9 3323  
## 1788 2366 6.89 87.07 1.1 1244  
## 2445 2340 6.08 88.53 -0.3 3004  
## 4706 2273 6.12 90.49 -0.6 3339  
## 3961 2218 5.92 87.10 -1.5 3431  
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## 4705 2014 6.38 88.46 -0.3 3343  
## 3981 2366 6.27 91.23 -0.5 3124  
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## 39 2200 6.69 91.25 0.8 2562  
## 882 2617 6.53 87.99 0.6 1153  
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## 3219 2011 6.41 87.59 0.3 3176  
## 1620 2245 5.75 84.63 -0.7 3113  
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## 4032 2236 6.56 90.09 0.7 2576  
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## 1883 2562 6.02 82.65 -0.4 975  
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## 36 2146 6.09 83.89 -0.6 2592  
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## 3253 2311 6.29 91.08 0.1 2752  
## 4756 1927 6.19 80.54 -0.5 2829  
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## 2556 2113 6.82 84.69 1.0 1638  
## 3307 2419 6.00 86.52 -0.2 2248  
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## 1631 2175 5.75 84.78 -0.8 2968  
## 4016 2254 6.47 89.31 -1.6 2832  
## 4748 2302 5.48 83.69 -1.7 2913  
## 4729 2306 6.01 89.81 -0.6 3103  
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## 1690 2489 5.78 87.27 -0.7 2247  
## 4741 2176 6.79 92.54 0.3 2976  
## 45 2118 6.56 86.73 0.3 2499  
## 70 2308 6.55 90.78 0.5 2269  
## 3217 2180 5.96 88.39 -0.6 3235  
## 1733 2440 6.93 91.43 1.2 1599  
## 11 2008 6.72 88.44 0.6 2898  
## 2469 2357 5.62 85.78 -1.3 2755  
## 3969 2006 6.39 88.11 -0.4 3282  
## 1602 2161 5.92 89.98 -0.4 3495  
## 1676 2351 5.83 85.49 -1.0 2466  
## 4727 2125 6.19 88.70 -0.1 3127  
## 1677 2239 6.54 85.64 -2.3 2456  
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## 4027 2221 6.38 88.42 0.0 2623  
## 4718 2246 5.96 88.24 -0.8 3239  
## 3965 2173 5.81 88.08 -0.8 3355  
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## 1662 2326 5.98 86.94 -0.3 2670  
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## 4722 2133 5.82 87.55 -0.7 3226  
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## 4759 2082 6.26 84.65 -0.3 2792  
## 2481 2472 5.68 87.88 -1.0 2552  
## 1665 2365 6.01 90.07 -0.3 2661  
## 1695 2269 6.48 88.21 0.5 2161  
## 3266 2352 5.97 88.30 -0.5 2644  
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## 1669 2174 6.05 86.09 -0.1 2643  
## 3233 2322 6.11 92.48 -0.4 3082  
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## 1759 2636 6.26 88.13 0.2 1363  
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## 975 2443 6.72 82.90 -1.0 710  
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## 1647 2308 5.65 84.92 -1.0 2778  
## 4006 2344 6.15 91.50 -0.6 2919  
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## 1649 2337 5.93 88.99 -0.6 2770  
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## 1652 2172 6.29 87.54 0.2 2721  
## 1732 2516 6.26 88.19 -0.2 1619  
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## 139 2146 7.33 89.32 1.8 1476  
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## 3347 2467 6.51 90.08 0.4 1610  
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## 49 2221 6.39 90.26 0.4 2461  
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## 1699 2291 6.42 89.08 0.5 2090  
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## 4030 2356 5.94 86.54 -1.0 2578  
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## 3983 2142 6.32 90.49 -0.7 3113  
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## 3218 2164 5.93 86.94 -0.9 3216  
## 4411 2532 6.31 77.75 -2.1 469  
## 2490 2276 6.28 90.27 0.1 2471  
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## 3531 2258 6.27 79.37 -0.3 914  
## 3970 1999 6.31 88.81 -0.1 3253  
## 96 2248 6.30 86.36 -0.2 1904  
## 3214 2201 6.13 91.11 -0.8 3298  
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## 4778 2200 6.15 88.45 -0.4 2532  
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## 1684 2114 6.49 89.17 0.7 2327  
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## 2473 2415 5.87 89.04 -1.0 2688  
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## 441 2081 6.36 75.60 0.0 565  
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## 117 2386 5.76 85.85 -0.7 1737  
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## 286 2768 6.13 89.81 -0.5 930  
## 3804 2313 7.60 89.91 2.1 192  
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## 1576 2338 7.28 86.80 1.8 20  
## 1794 2479 6.49 89.81 0.6 1217  
## 93 2406 5.87 88.65 -0.6 1944  
## 4180 2367 6.64 89.17 0.6 1118  
## 3346 2336 6.21 86.40 -0.6 1641  
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## 3348 2288 6.20 87.25 0.1 1581  
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## 1664 2177 6.24 91.09 -0.1 2665  
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## 4070 2330 6.21 88.14 -0.6 2062  
## 2528 2261 5.85 85.96 -0.8 2051  
## 927 2219 6.84 87.95 1.1 943  
## 2442 2144 5.41 83.44 -1.4 3008  
## 1678 2195 5.74 85.98 -0.6 2433  
## 1653 2294 5.79 90.19 -0.4 2711  
## 55 1980 6.68 89.59 0.7 2368  
## 3298 1885 6.68 86.60 0.5 2291  
## 4739 1980 6.21 88.70 -0.2 2983  
## 4303 2670 6.18 88.19 -0.6 795  
## 251 2333 6.74 89.46 0.8 1009  
## 4726 2124 5.34 85.45 -2.1 3162  
## 2519 2083 6.13 86.06 0.0 2130  
## 1671 2165 6.41 90.55 0.3 2571  
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## 4776 2012 6.54 90.47 0.2 2548  
## 3317 2106 6.53 87.93 0.4 2104  
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## 2529 2008 6.42 85.59 0.2 2041  
## 4775 2245 5.93 88.13 -0.6 2572  
## 4058 2203 6.38 90.47 -0.3 2213  
## 2443 2154 5.48 84.44 -1.4 3008  
## 4714 1591 5.49 75.30 -1.8 3264  
## 4014 2318 5.08 83.51 -2.3 2841  
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## 4751 2142 5.34 82.14 -1.7 2906  
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## 5027 2555 6.97 93.12 1.0 795  
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## 3234 2288 5.09 83.52 -3.0 3080  
## 1546 2327 5.26 69.26 -1.4 38  
## 9 2207 5.97 92.26 -0.6 2936  
## 167 2528 6.63 92.32 0.4 1249  
## 4781 2202 5.68 84.72 -1.0 2478  
## 4433 2292 7.59 83.89 -5.2 439  
## 4152 2475 6.25 86.05 -0.5 1196  
## 3963 2172 5.82 90.74 -1.0 3409  
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## 341 2836 5.52 87.45 -1.2 809  
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## 4205 2458 6.13 85.89 -0.2 1042  
## 86 2052 6.75 88.31 -0.1 2028  
## 1069 2438 7.27 89.09 -1.3 446  
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## 4779 2240 6.03 89.49 -0.9 2511  
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## 3297 2172 6.25 90.46 0.1 2303  
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## 2492 1840 6.06 81.31 -0.4 2448  
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## 3484 2585 6.08 87.02 -0.6 1007  
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## 4055 2259 5.87 87.77 -1.2 2274  
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## 4010 2111 5.78 88.46 -1.1 2884  
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## 877 2533 6.52 92.30 0.3 1203  
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## 3413 2392 6.84 92.10 0.7 1169  
## 435 2202 7.12 88.17 1.4 580  
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## 3257 2191 6.02 88.94 -0.8 2715  
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## 214 2520 6.57 92.76 0.3 1068  
## 3259 1794 6.46 87.75 0.2 2688  
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## 1657 2162 5.93 88.71 -0.6 2696  
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## 4139 2661 6.04 90.12 -0.6 1250  
## 1621 2091 6.39 93.93 0.3 3095  
## 165 2262 6.51 86.41 -0.1 1255  
## 4019 2033 6.23 89.31 -0.4 2793  
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## 3345 2172 6.27 86.66 -0.3 1666  
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## 1079 2526 6.34 81.09 -4.1 426  
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## 5183 2077 7.48 86.99 1.5 407  
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## 4263 2290 6.56 85.41 0.2 889  
## 159 2427 6.76 92.43 0.6 1308  
## 2532 2313 5.75 86.49 -0.7 1999  
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## 294 2408 6.79 92.05 0.6 916  
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## 4109 2171 6.54 84.61 -1.6 1470  
## 907 2188 6.90 88.30 1.2 1017  
## 2751 2288 6.58 86.77 0.5 835  
## 5166 2282 8.09 96.14 2.6 445  
## 115 2417 5.97 87.32 -1.2 1747  
## 150 2152 6.84 88.23 0.8 1388  
## 106 2154 6.03 82.84 -0.6 1799  
## 4175 2536 6.35 91.09 0.1 1133  
## 89 2367 5.68 85.92 -1.1 2006  
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## 4040 2061 6.15 87.31 -0.5 2468  
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## 4472 2101 6.80 82.06 0.7 347  
## 4966 2483 6.61 89.34 -0.2 981  
## 1663 2168 6.24 91.54 0.2 2668  
## 1734 2424 6.08 89.49 -0.2 1587  
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## 1756 2413 5.91 85.32 -0.6 1377  
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## 3937 2616 5.97 83.06 -0.4 21  
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## 4757 2261 6.02 92.11 -1.1 2798  
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## 3344 2330 6.48 91.40 0.1 1675  
## 1786 2477 6.30 90.69 0.2 1254  
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## 3415 2556 6.24 89.43 -0.4 1165  
## 1581 2549 6.80 89.38 1.2 17  
## 118 2363 6.10 89.39 -0.2 1713  
## 1098 2088 6.62 79.80 0.6 408  
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## 3337 2367 5.80 87.27 -0.9 1760  
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## 945 2288 7.09 90.69 0.4 872  
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## 938 2391 6.40 88.07 0.2 895  
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## 1434 2372 6.97 87.58 1.0 113  
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## 857 2018 7.33 83.56 1.5 12  
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## 2483 2207 5.76 88.48 -1.0 2529  
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## 3295 1952 6.28 87.85 0.0 2312  
## 84 2050 6.66 90.30 0.4 2080  
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## 2279 2621 6.39 88.45 0.1 136  
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## 1645 2072 5.58 85.60 -1.0 2787  
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## 1726 2173 6.42 89.60 0.6 1780  
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## 1705 1992 6.82 89.94 1.2 2001  
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## 137 2007 7.21 92.08 1.6 1480  
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## 4830 2224 5.97 85.22 -0.6 1771  
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## 215 2445 6.64 92.20 0.5 1068  
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## 1714 2259 6.02 89.65 -0.2 1888  
## 937 2301 6.30 86.55 0.1 899  
## 1363 2680 6.08 87.08 0.1 176  
## 1693 1944 6.56 89.58 0.7 2199  
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## 2649 2508 6.00 89.28 -0.4 1100  
## 4790 1956 6.42 89.21 0.0 2393  
## 4787 2095 6.06 90.45 -0.8 2441  
## 230 2375 6.26 88.28 -0.3 1040  
## 298 2552 6.04 86.72 -1.6 910  
## 3590 2254 6.49 87.46 0.7 760  
## 3990 2129 5.54 90.06 -1.5 3048  
## 1785 2219 6.04 84.58 -0.5 1255  
## 4818 2154 6.63 92.39 0.2 1876  
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## 3331 2161 6.56 92.48 0.6 1833  
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## 1365 2521 6.32 75.77 -9.5 174  
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## 911 2209 6.76 87.34 0.2 993  
## 744 2347 6.94 85.94 0.5 82  
## 2997 2370 6.58 85.60 0.3 237  
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## 1805 2488 6.41 90.63 -0.9 1162  
## 1672 2348 5.07 86.88 -1.9 2557  
## 2503 2181 5.83 89.66 -0.7 2313  
## 1680 1968 6.15 87.22 -0.1 2394  
## 428 2056 6.83 84.08 0.3 595  
## 3326 2415 5.75 89.70 -1.2 1941  
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## 3305 1969 6.10 87.55 -0.5 2260  
## 2605 2197 6.49 88.30 0.6 1226  
## 562 2424 6.23 84.19 -0.5 342  
## 2630 2446 6.53 92.80 0.2 1147  
## 2035 2523 6.05 86.02 -0.2 593  
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## 1305 2584 6.60 90.50 0.4 237  
## 4788 2170 5.74 87.24 -0.8 2439  
## 3612 2184 5.82 78.86 -0.8 671  
## 3742 2621 6.23 88.01 -0.2 323  
## 2524 2132 6.32 89.34 -0.1 2071  
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## 3355 2102 6.65 89.11 0.4 1516  
## 1694 2209 5.85 88.79 -0.8 2192  
## 3366 2104 6.27 86.75 0.1 1382  
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## 533 2136 6.93 86.66 0.9 394  
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## 2154 2542 6.49 91.16 0.7 346  
## 1328 2403 6.06 82.46 -0.7 210  
## 1780 2321 6.21 89.38 0.2 1274  
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## 622 2521 6.19 85.41 0.0 230  
## 4988 2014 7.10 87.71 1.1 912  
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## 1742 2374 5.72 86.49 -1.1 1510  
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## 885 2172 6.68 88.13 0.6 1139  
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## 4258 2200 6.68 88.56 0.0 906  
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## 651 2538 6.62 88.51 -0.4 189  
## 4925 2437 6.32 90.58 -0.5 1057  
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## 1268 2567 6.71 91.62 0.9 277  
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## 3446 1980 6.66 83.73 0.6 1075  
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## 980 2224 6.80 86.65 0.6 674  
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## 4430 2096 6.66 82.59 0.1 443  
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## 4053 2196 5.74 85.79 -3.4 2310  
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## 1537 2632 6.32 78.04 -7.6 43  
## 1754 2227 6.23 88.09 0.0 1387  
## 1010 2298 6.31 84.88 -0.2 572  
## 996 2104 6.72 85.58 0.9 613  
## 2646 2526 5.92 89.78 -0.5 1110  
## 2559 2173 5.89 85.56 -0.9 1594  
## 587 2300 7.11 91.07 1.1 293  
## 974 2333 6.22 86.36 -0.3 719  
## 100 1931 6.79 89.99 0.5 1857  
## 4987 2382 6.00 84.63 -0.6 921  
## 890 2218 6.63 88.43 0.3 1117  
## 2810 2154 6.47 84.57 0.1 687  
## 2924 2802 6.10 91.77 -1.2 407  
## 1769 2336 6.42 91.01 0.2 1310  
## 4132 2346 6.33 91.07 -0.2 1287  
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## 3264 2082 5.63 86.42 -1.4 2662  
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## 973 2245 6.67 89.26 0.7 719  
## 896 2287 7.13 94.93 1.5 1078  
## 3332 2287 5.70 87.76 -1.2 1831  
## 2501 1724 6.50 85.79 -0.5 2371  
## 2606 2310 6.21 89.46 -0.1 1224  
## 2555 2072 6.70 90.71 0.8 1649  
## 314 2512 6.18 89.12 -0.3 872  
## 4145 2567 5.81 90.86 -0.8 1220  
## 126 2092 6.72 90.91 0.6 1627  
## 4410 2287 6.19 83.08 -0.3 470  
## 4774 1997 6.37 91.52 -0.3 2630  
## 1174 2463 6.76 83.59 -5.9 358  
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## 1700 2080 6.07 89.06 -0.2 2060  
## 1642 1807 6.30 88.73 0.2 2836  
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## 4728 2095 5.69 91.10 -1.2 3109  
## 618 2335 6.55 86.19 0.6 236  
## 4008 2036 5.23 84.00 -2.0 2893  
## 1184 2449 6.65 89.03 0.7 349  
## 1186 2640 6.06 84.13 -3.0 348  
## 960 2293 6.69 88.79 -0.5 789  
## 2925 2487 6.29 89.05 0.1 405  
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## 3368 2485 6.27 92.23 -0.4 1359  
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## 4797 2126 5.92 87.44 -0.7 2255  
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## 1829 2320 6.64 93.27 0.8 1110  
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## 1798 2129 6.30 86.86 0.2 1194  
## 678 2333 6.55 85.29 0.2 153  
## 4294 2309 6.72 90.98 0.4 815  
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## 703 2399 6.66 88.06 0.0 135  
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## 3321 1961 6.36 87.14 0.0 2075  
## 2571 1998 6.61 88.95 0.7 1419  
## 1858 2584 5.71 86.62 -1.8 1028  
## 307 2293 6.96 94.27 1.2 890  
## 1833 2433 6.25 91.77 0.1 1096  
## 2531 2195 5.88 86.94 -0.9 2026  
## 609 2333 7.12 91.79 1.4 249  
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## 1666 2310 5.04 85.64 -2.1 2661  
## 3411 2168 6.46 88.38 0.3 1170  
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## 352 2455 5.81 86.55 -0.6 775  
## 914 2555 5.83 86.75 -1.0 979  
## 4969 2096 6.30 83.49 -0.2 968  
## 3270 2068 5.48 85.60 -1.6 2627  
## 2749 2225 6.64 89.76 0.6 841  
## 1890 2155 6.13 82.81 -0.2 963  
## 4045 2162 5.56 85.73 -1.6 2389  
## 1094 2585 6.40 89.74 0.2 410  
## 2495 2072 6.34 93.87 0.2 2412  
## 904 2554 6.01 90.69 -0.7 1046  
## 1084 2382 7.01 90.44 0.3 420  
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## 2647 2308 6.54 91.68 0.4 1109  
## 899 2363 6.30 89.69 -0.2 1064  
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## 3604 2093 6.19 81.75 -0.5 709  
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## 2259 2388 6.35 85.27 -0.2 163  
## 4122 2339 6.08 90.06 -0.2 1317  
## 111 2239 5.90 87.02 -0.9 1768  
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## 2069 2555 6.14 87.54 -0.1 519  
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## 1467 2562 6.72 91.80 1.0 85  
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## 892 2246 6.55 86.29 -3.0 1101  
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## 952 2086 7.07 88.54 1.2 812  
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## 2546 2127 6.40 90.90 0.4 1792  
## 1977 2459 6.29 91.05 0.1 732  
## 2497 2032 5.56 85.47 -1.2 2398  
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## 1468 2260 6.92 86.68 0.1 85  
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## 1099 2543 5.95 85.20 -1.1 407  
## 78 2006 6.26 86.43 -1.5 2121  
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## 264 2224 6.45 87.16 -1.3 979  
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## 2482 2193 5.86 90.44 -0.9 2535  
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## 3273 2056 5.65 85.85 -1.1 2587  
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## 1021 2225 6.56 86.76 0.0 532  
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## 2581 2275 5.61 83.50 -1.2 1379  
## 1811 2175 6.06 85.86 -0.1 1151  
## 144 2114 6.25 86.80 -0.2 1456  
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## 5020 2245 6.32 87.35 -0.2 824  
## 3915 2761 5.91 86.83 -0.7 44  
## 3504 2511 5.51 84.31 -1.5 968  
## 4241 2218 6.28 86.18 -0.4 943  
## 4052 2032 6.24 90.10 -0.7 2311  
## 1009 2526 5.67 82.25 -1.4 575  
## 2162 2205 6.68 85.70 0.7 333  
## 353 2408 6.32 90.26 -0.1 775  
## 4076 2303 5.68 87.45 -1.0 1983  
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## 2024 2514 5.99 85.57 -2.7 617  
## 1795 2170 5.95 84.19 -0.4 1216  
## 4421 2581 5.79 84.32 -1.5 458  
## 375 2541 5.99 88.01 -0.6 707  
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## 1976 2343 5.77 83.47 -0.7 732  
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## 946 2531 6.51 95.16 0.1 866  
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## 4796 2174 6.10 90.25 -0.7 2257  
## 1915 2212 6.61 90.07 0.7 911  
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## 1965 2414 6.10 86.15 -0.1 768  
## 2564 2252 6.11 89.67 -0.3 1482  
## 1029 2185 7.11 86.93 -1.1 509  
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## 4059 1800 6.72 89.30 0.2 2169  
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## 539 2562 6.41 89.14 -0.3 374  
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## 3591 2252 6.25 84.33 -0.3 756  
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## 462 2301 6.12 83.41 -0.3 521  
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## 4170 2469 5.97 88.91 -1.2 1145  
## 269 2433 6.17 89.81 -0.1 966  
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## 2537 1971 6.05 85.80 -0.6 1947  
## 1431 1983 7.18 83.93 1.2 114  
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## 3380 2282 6.48 90.74 0.1 1269  
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## 3341 2216 5.73 86.00 -1.4 1723  
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## 1008 2209 6.70 87.13 0.5 576  
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## 3691 2294 6.64 89.17 0.4 439  
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## 1567 2622 5.87 74.58 -10.3 25  
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## 2745 2532 5.54 84.34 -1.3 850  
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## 1851 2195 6.27 86.81 0.1 1048  
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## 1736 1990 6.20 86.37 -0.2 1579  
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## 336 2238 6.33 88.25 -0.1 827  
## 4114 1983 6.48 85.58 -1.3 1390  
## 4267 2383 6.06 87.00 -1.0 876  
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## 149 2256 6.10 90.26 -0.2 1402  
## 3576 2304 6.02 86.17 -0.4 801  
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## 3640 2175 6.20 82.89 -0.5 594  
## 3951 1626 5.91 65.20 -0.5 12  
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## 4782 2046 5.72 86.83 -1.3 2475  
## 1913 2268 6.31 89.36 0.1 914  
## 4768 2127 5.27 85.63 -2.1 2706  
## 334 2399 6.38 90.90 0.1 828  
## 4148 2005 6.57 87.58 0.3 1214  
## 2370 2091 5.58 70.14 -1.5 33  
## 4856 1888 6.65 87.16 0.4 1317  
## 2183 2339 6.76 89.90 0.8 293  
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## 1189 2356 6.21 86.55 -0.3 346  
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## 4962 2258 6.59 91.47 0.0 992  
## 944 2495 5.72 88.26 -0.8 875  
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## 3378 2357 6.19 91.97 -0.3 1275  
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## 3327 2244 5.84 88.15 -1.0 1936  
## 2774 2468 6.16 89.52 -0.2 789  
## 1698 2309 5.70 90.43 -0.7 2098  
## 2736 2224 6.14 85.67 -0.8 877  
## 3622 2316 6.22 87.47 -0.1 641  
## 1128 2489 6.21 83.27 -5.3 387  
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## 3440 2257 6.57 91.51 0.5 1098  
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## 1758 2441 5.70 88.91 -0.8 1364  
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## 415 2303 6.39 88.39 0.2 613  
## 2046 2193 6.12 84.65 0.0 564  
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## 2091 2450 6.28 89.49 0.1 461  
## 4851 2159 5.98 87.76 -0.4 1420  
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## 3037 2386 6.45 88.86 0.4 181  
## 1959 2273 6.57 90.79 0.6 784  
## 383 2431 6.27 91.35 -0.2 689  
## 2707 2071 6.71 88.79 0.6 950  
## 3437 2287 5.60 83.97 -1.4 1104  
## 2778 2273 6.84 93.00 1.0 776  
## 532 2535 6.51 91.13 -0.2 399  
## 313 2197 6.78 91.40 0.8 876  
## 4795 1955 5.78 87.06 -1.0 2290  
## 4245 2403 5.89 87.39 -1.0 935  
## 209 2195 6.37 87.34 -0.1 1080  
## 924 2218 6.03 84.89 -0.9 954  
## 3382 2246 6.48 90.44 -0.1 1259  
## 211 2190 6.36 88.98 0.0 1071  
## 2078 2494 6.05 87.32 -0.5 491  
## 320 2337 6.10 85.99 -2.0 856  
## 377 2438 6.43 91.01 -0.3 703  
## 4858 1945 6.68 87.61 0.5 1300  
## 279 2330 6.22 90.16 -0.3 937  
## 317 2384 6.49 92.39 0.0 869  
## 2889 2364 6.24 87.97 -0.2 499  
## 3743 2486 6.01 85.23 -0.7 321  
## 556 2481 6.26 90.07 0.2 356  
## 1272 1983 7.04 85.88 1.0 272  
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## 2634 2446 6.14 90.94 -0.3 1135  
## 4883 2185 6.44 88.92 0.0 1155  
## 3439 2440 6.07 91.39 -0.4 1101  
## 1845 2452 6.34 92.44 0.0 1056  
## 544 2566 6.58 94.56 0.1 368  
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## 513 2364 6.44 89.86 0.2 432  
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## 1265 2165 6.67 85.21 0.3 281  
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## 912 2145 6.02 84.96 -0.5 986  
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## 3588 2453 6.14 89.71 -0.2 765  
## 2727 2156 6.53 89.08 0.4 905  
## 2496 2108 5.71 90.36 -1.2 2404  
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## 993 2268 6.43 89.36 0.3 633  
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## 2299 1999 6.16 76.88 -0.4 104  
## 4247 2194 7.03 93.23 1.0 932  
## 3197 1968 7.09 84.88 1.4 10  
## 3528 2098 6.48 85.94 0.4 919  
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## 3993 2080 5.51 90.51 -1.6 3028  
## 168 1993 6.51 87.28 -0.1 1240  
## 1227 2667 5.77 89.16 -0.8 310  
## 3538 2411 5.57 84.50 -1.3 905  
## 4217 2337 5.75 84.39 -2.1 1006  
## 4860 2175 6.47 92.25 0.2 1282  
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## 151 1985 6.87 90.82 1.0 1352  
## 603 2409 6.15 86.86 -0.5 260  
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## 414 2404 6.36 88.95 0.2 620  
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## 610 2128 6.63 85.26 0.0 247  
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## 4607 2300 6.43 86.47 0.4 98  
## 2659 2205 6.09 86.69 -0.4 1057  
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## 686 2442 6.67 91.18 0.3 147  
## 1753 2207 6.17 87.76 -2.7 1392  
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## 3370 2430 5.38 86.19 -1.7 1333  
## 553 2419 6.57 89.48 -1.3 358  
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## 2809 2113 6.16 83.38 -0.3 695  
## 2580 2220 5.58 83.13 -1.2 1380  
## 1803 2429 5.76 87.15 -1.0 1175  
## 4118 2172 6.15 88.49 -0.4 1358  
## 3844 2314 6.22 82.51 -1.1 131  
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## 1881 2318 6.55 92.52 0.7 978  
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## 4838 2276 5.79 86.65 -1.6 1645  
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## 4347 2283 6.39 89.65 -0.1 663  
## 4564 2404 6.54 88.43 0.5 168  
## 3698 2744 5.84 91.19 -1.0 427  
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## 2592 2214 5.59 83.79 -1.2 1291  
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## 606 2579 6.24 91.17 -0.3 254  
## 4285 2334 6.34 91.17 0.1 836  
## 1868 2296 6.35 92.06 0.2 1016  
## 202 2330 6.84 95.64 0.9 1108  
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## 1765 2193 5.58 84.66 -1.0 1325  
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## 5223 2224 6.85 86.45 -0.4 301  
## 478 2321 6.44 89.27 0.0 482  
## 600 2168 7.18 72.48 -15.2 270  
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## 434 2158 6.38 85.45 -1.1 586  
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## 3425 2305 6.08 87.64 -0.7 1132  
## 3696 2444 6.64 92.13 0.7 430  
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## 2645 2434 6.21 93.09 -0.3 1111  
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## 4093 2003 6.36 89.41 0.2 1717  
## 1887 2172 6.50 90.76 0.4 971  
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## 1787 2219 6.46 90.84 0.3 1251  
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## 1387 2407 6.34 84.98 -2.6 147  
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## 4142 2389 5.83 90.07 -0.9 1229  
## 3322 2134 5.92 89.03 -1.0 2049  
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## 1856 2425 5.96 91.56 -0.3 1038  
## 4513 2235 6.39 86.17 0.3 249  
## 542 2180 6.80 89.57 0.8 370  
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## 2010 2408 6.52 91.25 0.4 661  
## 2681 2273 6.58 91.74 0.6 1009  
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## 1997 2081 5.85 80.86 -0.7 689  
## 3028 2476 5.81 83.23 -0.9 199  
## 3750 2325 6.16 85.68 -0.3 309  
## 1050 2536 6.56 93.91 0.2 472  
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## 989 2410 6.13 88.01 -0.8 646  
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## 3522 2101 6.46 88.77 0.2 937  
## 4083 2035 5.89 86.62 -1.0 1918  
## 1020 2130 6.86 89.03 1.0 538  
## 1158 2369 6.62 91.98 0.6 366  
## 2796 2180 6.55 89.39 0.4 727  
## 173 2382 5.72 89.17 -1.1 1208  
## 4405 2508 5.84 86.61 -1.2 476  
## 3541 2265 6.22 87.14 -0.6 901  
## 3521 2366 6.02 90.26 -0.6 939  
## 1047 2487 6.64 93.92 0.4 475  
## 1388 2285 6.85 91.18 1.1 146  
## 4406 2244 6.68 88.93 0.4 475  
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## 2767 2407 5.91 87.61 -0.9 805  
## 4153 2239 6.40 92.86 -0.1 1195  
## 5053 2420 6.04 89.20 -0.3 702  
## 3652 2290 6.12 85.90 -0.5 550  
## 2661 2196 6.29 88.03 -0.2 1049  
## 1950 2465 5.95 89.90 -0.6 824  
## 4608 2111 6.29 80.68 -0.9 98  
## 4225 2155 6.34 89.36 -0.1 992  
## 4197 2146 5.98 84.81 -0.6 1059  
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## 201 2170 6.56 92.76 0.4 1114  
## 891 2098 6.51 89.30 0.1 1102  
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## 1204 2269 5.82 81.56 -1.7 336  
## 3760 2376 6.16 86.02 -0.3 296  
## 4107 2074 6.32 87.74 -0.9 1513  
## 5304 2245 6.30 85.07 -0.2 160  
## 1153 2588 6.34 92.62 0.0 369  
## 1102 2295 6.48 90.15 0.2 404  
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## 4356 2238 6.87 92.89 0.6 648  
## 1820 2435 5.29 84.34 -1.3 1136  
## 2561 2155 5.95 89.75 -0.7 1562  
## 3551 2187 6.38 89.18 0.0 879  
## 2499 2164 5.16 85.04 -2.1 2387  
## 4425 2335 6.04 86.58 -0.2 451  
## 247 2324 5.92 86.94 -0.6 1015  
## 3634 2123 6.71 89.29 0.8 609  
## 4364 2386 6.26 89.31 -0.4 613  
## 424 2101 6.35 85.28 -0.1 604  
## 3749 2286 6.44 89.16 0.5 313  
## 3606 2229 6.06 86.85 -0.4 701  
## 448 2266 6.78 92.68 0.8 548  
## 225 2056 6.69 89.32 0.4 1048  
## 4110 2463 5.12 86.86 -2.3 1447  
## 3383 2402 5.89 90.13 -0.7 1259  
## 4230 2513 6.72 97.89 -0.9 976  
## 2057 2423 5.14 78.93 -1.7 543  
## 2013 2422 6.38 93.47 0.5 651  
## 4548 2565 5.76 87.18 -0.5 192  
## 3364 2149 5.97 87.60 -0.5 1404  
## 1039 2403 6.82 94.03 0.8 490  
## 524 2305 6.87 92.52 1.1 412  
## 4291 2391 5.74 86.40 -1.0 818  
## 4815 1870 5.42 80.97 -1.3 1925  
## 3449 2384 5.78 87.52 -1.1 1069  
## 2644 2083 6.22 86.79 -0.3 1113  
## 2121 2288 6.51 89.00 0.3 402  
## 2023 2446 5.76 87.57 -0.8 629  
## 1703 1948 5.97 88.86 -0.5 2047  
## 1192 2700 6.16 92.12 -1.2 345  
## 1166 2538 6.23 92.27 0.0 362  
## 302 2296 5.79 86.09 -0.6 892  
## 1764 1987 6.34 88.47 0.3 1333  
## 2597 2288 5.96 89.39 -0.8 1255  
## 3091 2406 6.14 84.35 -0.5 118  
## 2935 2162 6.04 82.37 -0.7 382  
## 1483 2289 6.92 91.10 1.2 76  
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## 2598 2400 6.22 94.68 -0.2 1251  
## 3608 1943 5.82 78.35 -1.1 697  
## 4895 2075 6.25 86.11 -0.5 1117  
## 722 2365 6.58 90.67 0.8 106  
## 569 2131 6.73 88.66 0.7 333  
## 4937 2174 6.46 89.24 0.2 1044  
## 1056 2224 6.16 83.61 -1.0 461  
## 4872 1926 6.46 85.60 -0.3 1180  
## 4232 2066 6.66 90.67 0.7 967  
## 3767 2315 6.41 88.58 0.3 274  
## 1085 2013 6.89 85.72 0.2 419  
## 2313 2279 6.53 87.97 0.4 91  
## 338 2270 6.11 86.91 -0.7 821  
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## 1992 2361 6.13 87.94 -0.1 693  
## 2835 2342 6.44 89.71 -0.7 632  
## 4846 1981 6.09 85.77 -1.0 1453  
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## 3476 2362 6.23 91.41 -0.4 1019  
## 4825 2283 5.26 85.22 -2.3 1842  
## 3435 2069 6.40 88.58 0.0 1106  
## 2284 1946 5.96 73.70 -1.7 132  
## 2802 2247 6.30 89.17 0.0 708  
## 351 2439 5.92 90.26 -0.6 777  
## 4239 1841 6.43 82.07 -1.1 945  
## 1281 2351 6.48 91.05 0.6 261  
## 5301 2473 6.28 88.22 -0.4 167  
## 284 2000 6.48 85.96 -1.1 934  
## 5024 2119 6.32 86.89 0.1 809  
## 3755 2127 6.64 86.99 0.8 300  
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## 923 2021 6.10 82.31 -1.0 960  
## 291 2507 5.83 90.59 -1.0 919  
## 4038 1767 6.04 86.69 -1.4 2476  
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## 951 2299 5.92 85.92 -0.6 815  
## 2551 2151 5.52 85.31 -1.4 1752  
## 2052 2408 6.12 90.46 0.0 555  
## 4240 2155 6.34 87.81 -0.2 945  
## 306 2177 6.59 90.89 0.2 892  
## 554 2348 6.47 89.41 0.2 358  
## 3571 2441 5.69 87.79 -0.8 822  
## 4382 2284 6.76 91.91 0.5 546  
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## 3535 2290 5.80 84.25 -0.9 909  
## 3451 1807 6.43 83.19 0.2 1068  
## 4843 2210 5.84 88.20 -1.1 1529  
## 2586 2121 6.64 92.52 0.6 1316  
## 4346 2267 5.96 84.52 -0.7 666  
## 4321 2430 6.25 92.66 -0.4 734  
## 4259 1946 6.57 85.30 -0.2 901  
## 2806 2312 5.89 87.17 -0.2 699  
## 4859 2202 5.98 89.27 -0.4 1294  
## 2853 2093 6.81 88.24 0.9 586  
## 4991 2276 6.25 89.41 -0.2 907  
## 696 2282 6.43 87.29 0.5 142  
## 2722 2290 6.54 91.94 0.5 916  
## 2930 2403 6.01 88.16 -0.3 395  
## 3684 2409 5.95 87.56 -0.9 461  
## 748 2163 6.51 84.11 0.2 79  
## 365 2066 6.56 87.78 0.2 751  
## 5323 2431 6.69 94.05 1.0 131  
## 4244 2251 5.60 84.16 -1.4 938  
## 4365 2459 5.93 88.69 -0.8 612  
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## 3474 2163 6.40 89.30 -0.2 1020  
## 2054 2208 5.98 82.83 -0.4 553  
## 2855 1983 5.86 64.38 -12.9 581  
## 4368 2433 5.60 85.49 -0.9 607  
## 4844 2277 6.12 91.04 -0.5 1481  
## 1899 2372 5.88 88.71 -0.3 941  
## 3657 2437 6.20 90.38 -0.6 535  
## 741 2211 6.56 86.68 0.4 83  
## 1741 2205 5.96 88.83 -0.5 1512  
## 2883 2408 5.48 82.47 -2.2 504  
## 2122 2480 6.13 89.02 -0.3 397  
## 3573 2297 6.52 90.84 0.1 809  
## 240 2324 6.05 89.66 -1.5 1025  
## 431 2212 6.29 86.68 -0.7 589  
## 4314 2447 5.70 88.75 -0.9 759  
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## 4085 2131 6.11 90.51 -1.2 1854  
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## 3517 2536 6.09 93.42 -0.4 944  
## 2081 2289 6.28 87.70 -0.1 486  
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## 2723 2293 6.03 88.78 -0.5 912  
## 2104 2233 6.57 88.62 0.6 425  
## 4293 2051 6.43 84.72 -0.8 815  
## 3777 2543 5.96 89.95 -0.5 253  
## 3619 2094 6.41 86.58 0.1 650  
## 2662 2497 5.93 91.33 -0.8 1048  
## 628 2440 6.13 88.86 -0.3 219  
## 1087 2046 6.12 82.35 -0.2 416  
## 2651 2103 6.30 87.71 -0.1 1088  
## 1142 2292 7.26 96.12 1.7 374  
## 2596 2319 5.59 85.74 -1.2 1268  
## 2859 2245 6.63 89.74 0.6 571  
## 3711 2330 6.42 90.65 0.0 397  
## 921 2045 6.88 90.24 0.7 963  
## 685 2231 6.34 84.51 -0.1 148  
## 4953 2480 6.34 94.03 -0.7 1008  
## 2679 2301 5.91 87.80 -0.8 1012  
## 2708 2437 5.61 86.72 -1.3 948  
## 2715 2563 5.38 86.64 -1.5 933  
## 1151 2374 7.00 94.25 1.1 370  
## 4404 2293 6.78 92.10 0.3 476  
## 3082 2346 6.70 91.29 0.9 129  
## 4185 2072 6.34 87.02 -0.3 1107  
## 5388 2278 6.61 86.94 0.7 42  
## 102 2051 5.82 87.78 -1.0 1845  
## 935 2088 6.81 91.21 0.8 903  
## 4909 2312 5.94 88.03 -0.7 1088  
## 2886 2390 5.49 83.76 -1.2 500  
## 4206 1967 5.85 79.63 -0.9 1035  
## 1061 2250 6.83 91.02 0.4 455  
## 125 2164 6.22 89.11 -2.6 1635  
## 4784 1732 5.80 85.27 -1.1 2459  
## 925 2130 6.42 87.92 -0.2 946  
## 4985 2291 5.80 86.58 -1.0 927  
## 396 2213 6.12 84.15 -0.6 665  
## 1133 2425 6.38 89.54 -0.1 381  
## 1853 2242 5.86 85.93 -0.5 1043  
## 1404 2438 6.20 79.99 -7.2 131  
## 795 2261 6.48 85.61 -0.1 48  
## 4222 2026 6.64 89.89 0.8 1001  
## 1169 2454 5.73 86.76 -0.6 361  
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## 2475 2057 5.28 87.12 -1.7 2649  
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## 403 2162 6.45 86.54 0.0 646  
## 2811 2262 6.41 89.80 0.1 679  
## 1125 2377 6.55 91.12 0.4 389  
## 1044 2339 7.10 95.83 1.2 483  
## 3544 2269 6.51 93.27 0.3 899  
## 4620 1970 6.91 85.97 1.3 82  
## 803 2020 6.57 82.78 0.4 41  
## 1901 2101 6.01 82.73 -1.2 937  
## 995 2094 6.31 84.60 -0.4 618  
## 4960 1945 6.46 85.98 -0.2 996  
## 3592 2155 6.61 90.58 0.4 753  
## 605 2127 6.67 84.61 -1.1 259  
## 1271 2396 6.24 89.85 -0.1 272  
## 4897 2363 6.22 91.43 -0.8 1116  
## 416 2505 5.94 90.39 -0.5 610  
## 2600 2363 6.16 92.82 -0.2 1247  
## 4877 2232 6.46 91.34 -0.2 1170  
## 3404 2050 6.33 89.36 0.1 1187  
## 193 1974 6.59 90.16 0.7 1136  
## 109 1911 6.08 87.76 -0.5 1778  
## 410 2329 6.44 91.69 0.3 631  
## 4276 2416 5.51 83.13 -2.7 852  
## 1327 2346 6.18 86.01 -0.3 212  
## 1778 2124 6.33 91.95 0.2 1284  
## 3713 2208 6.51 88.78 0.6 387  
## 392 2484 5.81 89.75 -1.2 673  
## 2232 2356 6.19 88.45 0.1 202  
## 2832 2089 6.88 90.99 1.0 636  
## 2734 2153 6.09 86.67 -0.5 880  
## 4827 2105 5.72 88.36 -1.2 1800  
## 4801 2080 5.37 85.12 -1.7 2149  
## 3025 2091 6.49 84.20 0.4 202  
## 447 2497 5.74 87.99 -0.8 549  
## 2864 2572 6.10 92.02 -0.4 565  
## 4981 2081 6.89 92.30 0.7 940  
## 4228 2506 5.50 88.68 -1.5 983  
## 140 2150 5.84 86.22 -1.3 1470  
## 4845 2216 6.18 91.03 -0.3 1463  
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## 1264 2153 6.27 84.00 0.1 281  
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## 1937 2236 6.36 91.76 0.4 865  
## 3098 2285 6.24 85.79 0.2 111  
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## 2942 2250 6.27 85.90 -0.5 367  
## 576 2179 6.16 82.20 -1.4 315  
## 331 2147 5.98 85.76 -0.5 832  
## 1898 2289 5.94 87.81 -0.4 945  
## 902 1949 6.11 83.58 -0.5 1055  
## 1975 2355 6.05 88.14 -0.1 737  
## 2671 1939 6.80 88.44 0.9 1034  
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## 1236 2313 6.06 85.37 -1.1 300  
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## 1364 2431 6.13 85.59 -2.3 176  
## 1436 2340 6.47 88.11 0.1 111  
## 3047 2185 6.43 85.31 0.4 166  
## 3710 2337 6.76 92.52 0.6 407  
## 2789 2373 6.23 91.30 0.0 747  
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## 4163 2167 6.17 87.34 -0.7 1162  
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## 3503 1910 5.78 80.15 -0.9 970  
## 1504 2508 6.23 90.47 0.0 61  
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## 4079 2086 6.25 92.59 -1.0 1950  
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## 5252 2264 6.60 89.96 0.1 251  
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## 5096 1974 6.87 88.78 1.0 594  
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## 4826 1942 5.95 87.36 -0.9 1804  
## 4167 2159 6.05 87.91 0.0 1150  
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## 2004 2186 6.32 88.97 0.3 676  
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## 4916 2246 6.53 92.62 0.0 1070  
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## 145 2066 6.01 86.90 -0.9 1444  
## 2510 2129 5.13 84.14 -2.0 2228  
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## 208 2289 5.81 88.35 -1.5 1080  
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## 1776 1950 6.33 88.66 0.4 1287  
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## 3945 2281 6.43 86.01 0.0 15  
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## 2860 2206 6.18 86.50 0.0 571  
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## 3410 2140 5.76 85.97 -0.9 1171  
## 297 2198 6.40 89.64 0.2 911  
## 4996 2397 6.19 93.16 -0.8 890  
## 1761 2343 5.38 87.68 -1.3 1352  
## 1007 2188 6.49 89.47 -0.3 589  
## 124 2101 6.31 91.04 -0.4 1639  
## 3557 2523 5.47 88.49 -1.4 865  
## 4188 2226 6.72 93.85 0.4 1095  
## 3515 2376 6.06 91.49 -0.6 949  
## 299 2154 6.20 87.89 -0.4 899  
## 693 2223 6.82 92.15 1.2 144  
## 3610 2080 6.37 86.88 -0.1 681  
## 388 2298 6.18 88.04 -0.2 677  
## 682 2306 6.75 90.69 -0.1 148  
## 3835 2191 6.35 84.22 -0.2 144  
## 2680 2349 6.04 89.93 -0.7 1012  
## 5095 2380 6.34 91.60 -0.2 596  
## 318 2053 6.55 89.96 0.3 863  
## 1308 2324 6.57 91.48 0.7 236  
## 5269 2132 6.87 89.65 -0.1 218  
## 4208 2314 5.78 87.31 -1.2 1027  
## 1482 2467 6.19 87.15 -0.4 76  
## 3653 1944 6.61 85.38 0.2 542  
## 1255 2141 6.76 90.85 1.1 285  
## 648 2154 6.87 88.62 0.5 190  
## 2815 2264 6.23 89.87 -0.1 670  
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## 3930 2314 6.58 91.25 1.0 29  
## 3481 2272 5.96 89.85 -0.9 1010  
## 2005 2201 5.62 82.87 -1.0 675  
## 3421 2085 6.52 91.88 0.4 1152  
## 127 1916 6.24 86.54 -0.5 1622  
## 991 2326 6.10 89.46 -0.8 641  
## 381 2342 6.13 90.09 -0.3 695  
## 2178 2354 6.18 87.33 0.0 302  
## 3772 2263 6.57 88.33 0.1 265  
## 2735 2207 6.33 88.84 -0.1 878  
## 2739 2294 6.02 89.19 -0.5 871  
## 2063 2331 6.01 89.05 -0.3 533  
## 5221 1962 7.00 86.53 0.8 307  
## 5368 2409 5.72 83.97 -1.0 66  
## 3110 2136 6.93 89.11 1.1 93  
## 4391 2193 6.14 86.66 -0.5 528  
## 1957 2140 6.12 86.87 -0.5 794  
## 2026 2073 6.75 89.03 0.9 612  
## 4140 2273 5.93 85.72 -3.9 1245  
## 4459 2467 5.76 86.68 -1.5 380  
## 2298 2588 5.73 87.31 -0.6 104  
## 1370 2259 6.68 88.15 0.3 169  
## 947 2401 5.91 89.04 -0.5 858  
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## 1405 2009 7.04 86.52 0.4 130  
## 2608 2152 6.16 90.09 -0.1 1211  
## 3701 2133 6.38 87.08 0.4 422  
## 1739 2146 5.32 84.38 -1.5 1548  
## 5131 2116 6.46 88.17 0.3 520  
## 4864 2152 5.47 83.68 -1.5 1246  
## 736 2448 6.43 88.83 -0.9 88  
## 4095 1963 6.26 85.71 -3.5 1708  
## 5154 2235 6.71 92.37 0.4 473  
## 4903 2222 5.88 87.87 -1.3 1102  
## 1266 2273 6.03 83.17 -2.6 280  
## 573 2501 6.25 91.10 -0.8 326  
## 2833 2412 5.64 86.87 -1.3 633  
## 1139 2147 6.73 90.96 0.9 377  
## 819 2496 5.90 87.57 -0.5 28  
## 4964 2397 5.87 90.50 -0.7 985  
## 4814 1998 5.69 86.41 -1.3 1978  
## 1155 2222 6.73 92.07 0.8 368  
## 4581 2309 6.50 86.78 -2.2 133  
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## 2038 2415 6.11 89.83 -0.2 587  
## 2642 1929 6.26 85.01 -0.2 1116  
## 2088 2478 5.37 82.94 -1.4 463  
## 4200 2347 5.58 87.58 -1.3 1052  
## 1072 2207 6.55 88.02 -0.4 439  
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## 1190 2053 6.50 84.20 -0.6 346  
## 3500 2097 6.05 87.16 -0.4 973  
## 2881 2431 6.36 92.22 0.1 505  
## 4182 2284 6.08 90.41 -0.7 1117  
## 2638 2311 6.17 94.15 -0.1 1124  
## 182 2023 6.55 89.73 0.4 1176  
## 4402 2464 6.25 92.79 0.1 483  
## 5378 2259 6.08 81.82 -1.4 55  
## 1289 2283 6.30 86.24 -0.1 252  
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## 92 1989 5.98 88.44 -0.5 1956  
## 2577 1882 6.51 88.51 0.4 1389  
## 1130 2385 6.08 88.99 -0.1 385  
## 555 2160 6.30 85.22 0.1 357  
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## 730 2188 6.36 84.78 -0.7 93  
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## 4344 2189 6.37 88.51 -0.1 670  
## 521 2218 6.67 90.32 0.6 422  
## 3154 1914 5.51 72.67 -0.6 43  
## 1844 2243 6.13 91.17 -0.4 1061  
## 4930 2436 5.88 92.47 -1.0 1050  
## 2539 2139 4.83 82.65 -2.4 1879  
## 2197 2426 5.70 86.45 -0.9 270  
## 1960 2506 5.20 85.97 -1.8 779  
## 4133 2251 5.64 86.04 -1.2 1278  
## 5123 1966 6.76 85.25 0.2 536  
## 836 1826 5.39 68.70 -0.8 20  
## 1762 2425 5.49 89.04 -1.1 1344  
## 2015 2291 6.39 90.72 0.2 647  
## 3445 2449 5.54 89.10 -1.3 1077  
## 4849 1897 6.51 88.23 0.0 1445  
## 607 1918 6.83 85.78 0.9 251  
## 3147 1683 5.72 67.15 -0.7 48  
## 4829 2131 5.73 88.51 -1.1 1772  
## 5333 2191 6.02 83.15 -0.8 110  
## 647 2153 6.61 85.93 -0.1 190  
## 1304 2275 6.30 86.68 -1.1 240  
## 2327 2644 6.11 91.33 -0.2 72  
## 5257 2220 6.46 87.98 -0.1 246  
## 3756 2331 5.33 80.47 -1.6 300  
## 3520 2191 6.04 87.90 -0.3 939  
## 617 2201 6.47 86.75 -1.6 237  
## 3853 2369 6.40 89.99 0.3 124  
## 1843 2304 5.62 85.28 -3.0 1065  
## 4398 2304 5.87 85.59 -0.9 492  
## 1323 2446 5.76 84.15 -0.9 219  
## 2718 2000 5.74 81.77 -0.9 929  
## 2001 2366 6.17 90.91 0.0 682  
## 2764 2555 5.36 87.61 -1.6 816  
## 3416 2179 6.44 92.60 0.0 1164  
## 2000 2343 6.00 88.52 -0.3 684  
## 2880 2325 6.22 90.18 0.0 505  
## 2786 2245 5.95 85.64 -0.6 753  
## 1514 2229 6.97 93.36 1.5 57  
## 811 2345 6.50 88.62 0.1 32  
## 2834 2392 6.13 89.35 -0.3 632  
## 2667 2344 6.16 92.02 -0.4 1038  
## 5083 2318 6.29 91.27 -0.4 632  
## 2073 2304 6.43 90.24 0.5 504  
## 1770 2220 5.75 88.20 -0.8 1307  
## 3031 2644 5.56 88.76 -1.3 194  
## 1562 2372 6.53 86.52 -2.4 30  
## 4772 2140 5.41 90.73 -1.8 2651  
## 3816 2355 6.06 87.66 -0.3 172  
## 4154 2229 6.46 93.00 -0.9 1194  
## 3631 2290 6.45 90.72 -0.1 614  
## 541 2061 7.11 91.80 1.4 371  
## 4636 2039 5.94 77.21 -1.0 60  
## 3406 2329 5.54 87.01 -1.4 1179  
## 913 2188 5.96 86.92 -0.4 983  
## 216 2370 6.06 93.57 -0.3 1067  
## 1520 2496 6.11 89.96 -0.5 54  
## 3654 2298 6.37 91.66 0.0 541  
## 1118 2414 6.84 95.61 0.3 394  
## 380 1999 6.67 84.93 -1.6 696  
## 4212 2405 6.10 92.79 -1.1 1019  
## 4631 2345 6.47 89.70 0.5 65  
## 5019 1895 6.40 85.46 0.0 828  
## 1286 2202 6.96 91.54 1.3 255  
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## 3085 2458 6.01 88.10 -0.2 128  
## 4530 2396 6.12 87.70 -0.7 221  
## 1092 2366 5.97 87.18 -1.2 412  
## 706 2354 6.35 89.49 0.3 133  
## 818 1996 7.10 88.59 1.5 29  
## 2897 2064 6.60 87.11 0.3 476  
## 4129 2135 6.12 90.10 -0.1 1296  
## 2807 2384 5.84 87.81 -1.0 696  
## 1059 2171 6.17 84.73 -0.2 456  
## 498 2325 6.23 87.63 -0.8 448  
## 4854 2208 5.51 87.25 -1.3 1336  
## 1730 1981 6.10 87.69 -1.7 1671  
## 4950 2186 6.22 90.10 -0.1 1014  
## 390 2168 5.67 82.68 -1.1 674  
## 357 2400 5.85 89.00 -1.0 765  
## 346 1904 6.10 83.25 -0.2 794  
## 5069 2134 6.81 91.13 0.5 666  
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## 2271 2511 5.90 88.88 -0.4 143  
## 2398 2311 6.02 85.66 -0.2 17  
## 1517 2277 6.49 90.05 0.6 55  
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## 4275 2224 6.29 91.77 0.3 857  
## 588 2216 6.53 87.84 0.4 292  
## 3420 2291 6.24 92.21 -0.9 1158  
## 3506 2202 5.92 87.59 -0.6 968  
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## 4084 1933 6.19 89.81 -0.3 1866  
## 4268 2165 5.91 86.37 -0.9 871  
## 2051 2352 5.95 89.46 -0.3 556  
## 2224 2506 5.75 85.94 -0.8 212  
## 3625 2105 6.20 86.77 -0.1 638  
## 3886 2231 6.76 90.21 1.0 91  
## 1138 2165 6.66 90.48 0.7 377  
## 612 2281 6.31 86.52 -0.7 244  
## 910 2043 6.52 83.01 -5.4 998  
## 1802 2190 6.64 90.73 -2.7 1181  
## 1572 2472 6.11 89.85 -0.4 22  
## 2092 2536 5.77 88.24 -0.9 460  
## 2350 2234 6.08 84.18 -0.3 52  
## 2357 1709 5.45 65.30 -2.5 44  
## 1808 2279 5.83 89.30 -0.8 1157  
## 487 2087 6.64 88.69 0.4 461  
## 1566 2031 6.86 87.19 1.1 27  
## 916 1910 6.32 84.82 0.2 971  
## 3797 2259 5.78 83.65 -0.9 214  
## 3867 2635 5.98 90.82 -0.4 109  
## 3467 2341 6.10 93.36 -0.5 1031  
## 1036 2340 5.80 86.38 -1.0 500  
## 2968 2153 6.72 88.34 0.5 307  
## 2622 2221 5.66 86.21 -1.1 1162  
## 2978 2329 5.83 84.11 -1.0 286  
## 2090 2288 6.16 87.14 -0.1 461  
## 3677 2122 6.52 88.79 0.5 485  
## 483 2481 5.75 87.03 -1.2 468  
## 1106 2168 6.62 89.61 0.7 399  
## 841 1768 5.23 65.52 -1.3 18  
## 2792 2484 5.94 90.64 -0.7 739  
## 419 2166 6.44 90.85 0.3 610  
## 2077 2492 5.35 85.27 -1.9 491  
## 932 2206 5.54 83.22 -1.0 916  
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## 5177 2190 5.87 82.70 -1.0 411  
## 1011 2106 6.45 88.29 0.3 571  
## 1408 2223 6.50 87.90 0.3 129  
## 962 2220 6.13 88.50 -0.4 787  
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## 1126 2485 5.84 87.55 -0.5 387  
## 456 2306 6.57 91.23 -0.3 530  
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## 2908 2247 5.92 86.17 -0.3 442  
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## 2849 2376 5.83 87.70 -0.8 595  
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## 2549 1882 6.21 89.39 -0.1 1789  
## 1892 2610 5.61 92.32 -1.1 959  
## 3799 2503 5.93 88.70 -0.7 208  
## 2669 2128 6.00 86.65 -2.2 1037  
## 5253 1908 6.08 77.91 -0.4 251  
## 437 2174 6.67 90.74 0.9 578  
## 1487 2494 6.22 90.68 -0.5 73  
## 292 2175 6.13 89.47 -0.3 917  
## 5295 1908 6.62 83.96 0.4 175  
## 5392 2134 6.72 88.45 0.1 38  
## 4504 2217 6.45 87.42 0.0 263  
## 5222 1843 6.96 84.53 0.8 303  
## 3568 2030 6.05 85.07 -0.5 829  
## 2587 2115 6.16 90.58 -0.5 1315  
## 4630 2120 6.47 84.23 0.2 66  
## 520 2249 6.64 91.32 0.6 424  
## 1002 2120 6.33 87.01 0.0 599  
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## 3555 2310 5.79 87.12 -1.0 870  
## 1228 2346 6.60 92.40 0.2 309  
## 1239 2437 6.34 92.97 0.1 299  
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## 695 2350 6.20 89.07 0.1 142  
## 2920 2251 6.47 91.56 0.4 418  
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## 964 2087 6.06 86.06 -0.7 769  
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## 2583 2283 5.51 87.22 -1.3 1345  
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## 5264 2137 6.44 87.18 0.4 228  
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## 3699 2037 6.72 85.95 -0.1 424  
## 3751 1991 6.09 81.06 -0.9 307  
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## 2229 2302 6.07 86.78 -0.3 204  
## 5201 2228 6.36 87.82 0.0 378  
## 2257 2172 6.13 82.73 -0.4 164  
## 3564 2195 6.08 87.91 -0.4 850  
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## 4067 1887 5.81 86.97 -2.0 2096  
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## 2936 2347 6.16 88.81 -0.2 377  
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## 626 2300 6.41 90.66 0.2 221  
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## 2042 2467 6.13 93.19 0.0 577  
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## 507 1956 6.49 84.99 0.4 439  
## 233 2323 5.58 86.23 -1.4 1034  
## 2700 2421 5.89 92.77 -0.7 969  
## 1274 2144 5.92 76.41 -5.1 268  
## 105 2022 5.74 85.33 -2.4 1830  
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## 472 1995 6.84 87.05 0.3 498  
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## 4998 2439 6.05 92.33 -0.5 881  
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## 2397 1980 7.02 88.48 1.5 17  
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## 2210 2430 5.85 87.21 -0.4 248  
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## 1897 2445 4.90 84.16 -2.2 946  
## 1023 2128 6.53 90.85 0.5 528  
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## 724 2193 6.71 90.47 0.7 104  
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## 4301 2149 6.23 88.88 -0.4 796  
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## 1917 2164 6.48 91.82 0.5 906  
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## 3540 2239 5.33 82.98 -1.8 902  
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## 3702 2396 6.43 93.01 0.2 422  
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## 4063 1891 5.94 90.85 -0.7 2132  
## 2904 2340 5.71 85.50 -1.0 450  
## 1812 2180 5.72 87.97 -0.8 1149  
## 1447 2303 6.29 87.71 -0.1 107  
## 398 2405 5.96 90.69 -0.8 662  
## 443 2351 6.15 89.72 -0.6 557  
## 2773 2084 6.88 92.93 1.0 790  
## 4817 1932 6.00 87.75 -0.6 1882  
## 3049 2154 6.19 83.62 -0.4 165  
## 1372 2331 6.18 87.51 -0.4 168  
## 505 2212 6.42 90.96 0.3 441  
## 3457 2205 6.08 90.00 -0.6 1050  
## 3490 2309 6.16 93.20 0.1 992  
## 2342 2276 6.21 88.25 0.1 63  
## 4412 2316 6.30 89.24 -0.4 468  
## 3658 2224 6.15 88.87 -0.2 532  
## 272 2213 6.00 89.77 -0.6 948  
## 2131 2269 6.06 87.69 -0.1 384  
## 2228 2429 5.74 86.02 -0.5 205  
## 2388 2170 5.81 81.86 -0.4 21  
## 488 2246 5.97 85.70 -1.0 461  
## 2118 2432 6.00 89.13 -0.5 407  
## 3387 1967 6.22 88.48 -0.2 1238  
## 4438 2126 6.39 85.93 -0.5 424  
## 969 2132 6.21 87.03 -0.3 747  
## 1981 2320 5.99 89.99 -0.5 723  
## 1859 2260 5.69 87.22 -0.8 1027  
## 5398 2318 6.33 86.24 -0.8 33  
## 244 2085 6.31 90.76 -0.2 1017  
## 1822 2292 5.72 89.69 -0.8 1133  
## 290 1973 6.64 90.77 0.4 921  
## 3956 2488 5.84 86.04 -0.6 5  
## 2206 2000 5.72 77.67 -1.5 256  
## 1194 2271 6.62 92.10 0.4 341  
## 2798 2139 5.91 85.00 -0.8 720  
## 2632 1808 6.40 87.06 0.2 1146  
## 733 2214 6.37 83.98 -3.0 90  
## 409 2375 6.17 92.87 -0.2 632  
## 543 2368 6.38 90.82 -0.5 369  
## 5150 2115 5.85 83.76 -0.7 481  
## 1980 1829 6.52 82.64 -0.4 724  
## 4861 2019 6.13 88.50 -0.3 1281  
## 2848 2097 6.60 90.20 0.5 601  
## 806 2258 6.68 91.36 0.3 36  
## 4335 2293 6.07 88.74 -0.3 701  
## 1381 2433 5.88 88.08 -0.5 153  
## 2334 2451 5.80 87.57 -0.5 68  
## 1497 2058 6.67 84.12 -1.0 67  
## 1127 1961 7.18 90.24 1.3 387  
## 2631 2245 5.93 89.91 -0.8 1147  
## 2689 2161 6.17 90.58 -0.2 993  
## 3864 2355 5.94 84.94 -0.5 112  
## 3704 2261 6.18 86.28 -2.5 418  
## 2147 2140 6.88 92.31 1.3 356  
## 931 2045 6.60 90.53 0.6 922  
## 4642 2336 5.78 85.59 0.5 58  
## 4986 2246 5.93 88.01 -1.2 921  
## 2765 2207 5.70 84.61 -1.3 813  
## 1801 2371 5.48 88.32 -1.4 1181  
## 986 2241 5.75 85.69 -0.9 652  
## 4948 2127 6.68 95.56 0.6 1024  
## 3678 2070 7.08 93.20 1.0 481  
## 5260 2233 5.76 82.41 -0.8 236  
## 2053 2117 6.03 86.75 -0.1 555  
## 4517 2414 6.06 91.05 -0.1 240  
## 676 2039 6.93 90.56 1.1 156  
## 3932 1949 5.89 76.41 -0.6 26  
## 694 2524 5.86 87.84 -0.7 143  
## 2923 2369 5.59 85.58 -1.1 408  
## 1931 2148 6.23 89.50 -0.2 878  
## 551 2229 6.23 88.07 -0.7 361  
## 4511 2202 6.48 89.87 0.3 249  
## 2921 2049 6.02 82.89 -0.4 418  
## 1076 2253 5.95 86.87 -0.7 429  
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## 4819 1812 6.13 87.23 -0.4 1870  
## 4366 2348 6.31 91.14 -0.4 612  
## 1970 2411 5.82 89.24 -0.7 752  
## 4466 2169 6.48 89.47 -0.1 358  
## 5420 2326 5.77 82.79 -1.5 16  
## 518 2318 6.12 89.29 -0.4 425  
## 2973 2182 6.18 85.32 -0.3 292  
## 623 2093 6.91 90.10 0.4 230  
## 4214 2073 5.93 84.33 -1.4 1014  
## 3837 2090 6.14 83.28 -0.3 138  
## 3083 2139 6.67 89.19 0.7 129  
## 2289 2060 7.03 92.35 1.5 118  
## 1342 2517 6.00 90.41 -0.4 194  
## 2719 1939 6.48 88.78 0.4 926  
## 3863 2544 5.77 87.63 -0.8 114  
## 1051 2395 6.00 88.84 -0.4 470  
## 205 2475 5.56 91.10 -1.5 1096  
## 4946 2075 5.64 83.87 -1.5 1027  
## 1563 2449 5.93 77.99 -9.0 30  
## 2940 2117 5.90 83.47 -0.6 370  
## 2729 2390 5.33 85.13 -1.7 891  
## 2800 2433 5.59 87.33 -1.3 715  
## 1471 2478 6.42 93.00 0.1 83  
## 433 1954 5.87 77.54 -2.1 587  
## 4656 2226 6.52 87.81 -0.1 46  
## 1394 2161 6.37 85.04 -0.1 137  
## 933 2284 5.95 91.25 -0.8 914  
## 3400 2547 4.81 84.74 -2.9 1201  
## 5014 2160 6.20 90.16 -0.5 834  
## 1340 2256 6.37 88.32 0.2 194  
## 4127 2240 5.80 88.92 -1.5 1303  
## 4509 2369 5.95 87.12 -0.4 253  
## 5049 2004 6.47 88.68 0.3 727  
## 4567 2138 6.34 86.76 -0.2 166  
## 2724 2203 6.52 92.64 0.3 910  
## 1217 2281 6.16 87.62 -0.2 323  
## 2766 2178 6.09 87.15 -0.3 807  
## 3067 2337 6.40 90.69 0.1 146  
## 751 2149 6.72 90.26 0.6 75  
## 5192 2330 6.58 93.21 0.3 392  
## 4527 2212 5.96 84.96 -0.9 225  
## 3565 1937 6.62 88.70 0.3 849  
## 688 1955 6.50 84.58 0.7 147  
## 829 2257 6.39 88.87 0.2 23  
## 1926 2483 5.84 90.73 -2.0 894  
## 2383 2416 6.31 89.64 0.3 25  
## 5173 2223 5.93 84.81 -0.9 421  
## 2943 2438 5.50 84.61 -1.7 360  
## 3579 2305 5.88 88.32 -0.9 799  
## 4322 2331 5.83 87.63 -1.0 732  
## 130 1767 6.43 87.14 0.0 1594  
## 1300 2214 6.48 88.51 -0.2 241  
## 3599 2179 6.72 93.53 0.9 727  
## 2168 2259 6.05 87.87 -0.2 329  
## 4403 2267 6.40 90.72 0.2 477  
## 4488 2201 6.17 84.92 -1.1 301  
## 2059 2736 5.29 88.22 -3.3 541  
## 4878 1922 6.61 89.83 0.5 1169  
## 3398 1900 6.35 88.48 0.0 1204  
## 3470 2365 5.92 90.94 -0.8 1027  
## 1258 2482 5.86 86.74 -1.9 284  
## 1763 2459 5.55 90.15 -2.2 1335  
## 4317 2183 5.80 86.96 -0.6 744  
## 3796 2347 6.34 89.64 0.2 214  
## 2347 2300 6.53 90.12 0.6 53  
## 3485 2197 6.28 92.69 0.2 999  
## 739 2352 6.77 93.43 1.0 84  
## 295 2159 5.77 85.09 -1.8 912  
## 732 2040 6.89 90.17 1.4 92  
## 579 2128 6.45 88.58 0.4 310  
## 1035 2299 5.85 86.59 -1.2 500  
## 1319 2062 6.87 90.58 1.0 223  
## 3396 2463 5.47 91.59 -1.3 1208  
## 953 1681 7.16 87.54 1.4 812  
## 4297 1834 6.31 83.59 -0.3 806  
## 1534 2658 6.21 91.25 -1.9 46  
## 1378 2282 6.62 91.50 0.4 158  
## 1154 2275 6.45 90.33 0.2 369  
## 2664 2448 5.92 91.42 -2.5 1045  
## 3483 2208 5.88 86.84 -1.2 1008  
## 4693 2345 6.34 89.39 -0.1 10  
## 2087 2290 6.15 89.89 0.0 464  
## 1799 2378 5.23 88.86 -1.2 1188  
## 4524 2404 6.08 88.62 -0.6 232  
## 1493 2241 6.59 89.21 0.1 68  
## 2626 1906 5.73 80.68 -2.5 1158  
## 1895 2354 5.32 86.97 -1.4 949  
## 4102 2023 5.65 84.83 -1.6 1577  
## 4334 2117 5.75 81.80 -2.4 712  
## 3056 2069 7.01 92.85 1.5 157  
## 646 2224 6.46 88.91 0.3 192  
## 3827 2424 5.72 84.55 -0.9 156  
## 2623 2267 6.08 91.10 -1.8 1162  
## 4340 2055 6.34 88.65 -0.4 682  
## 2893 2358 5.99 89.50 -0.4 489  
## 2869 2028 6.38 86.21 0.0 541  
## 1006 2259 6.28 89.73 -0.2 591  
## 2958 2298 6.53 90.85 0.4 328  
## 5007 2158 6.36 90.03 -0.2 860  
## 2163 2331 6.06 88.70 -0.2 333  
## 1596 1847 5.14 68.78 -1.3 8  
## 3848 2039 6.50 84.43 0.3 129  
## 3587 2209 5.76 85.90 -0.9 765  
## 4432 2017 5.91 81.76 -1.2 439  
## 2114 2197 5.67 83.37 -1.0 408  
## 4886 2042 5.79 86.45 -1.1 1152  
## 4947 2182 6.22 92.46 -0.3 1025  
## 1495 2237 6.33 88.09 0.4 67  
## 328 2237 6.27 90.83 -0.2 836  
## 2034 2513 5.41 86.35 -1.4 595  
## 5038 2378 5.92 91.56 -1.1 761  
## 1136 2363 6.48 93.98 0.2 378  
## 1971 2346 5.73 86.94 -1.2 751  
## 4265 2134 5.12 80.65 -1.8 883  
## 4413 2298 5.91 86.42 -0.9 468  
## 2043 2173 5.82 83.92 -0.8 568  
## 1104 2196 6.24 84.63 -2.2 402  
## 639 2342 6.23 89.32 0.2 199  
## 2576 2282 5.23 86.19 -2.3 1393  
## 1288 2128 6.52 88.01 0.4 252  
## 1891 2374 5.99 90.94 -1.2 961  
## 4995 1942 6.42 86.04 -0.2 891  
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## 3697 2293 6.06 89.56 -0.4 427  
## 2899 2227 5.73 84.59 -0.8 468  
## 3731 1823 6.55 82.62 0.7 344  
## 2947 2074 6.27 85.60 0.1 354  
## 1117 2319 6.42 93.36 0.2 394  
## 4137 2198 5.22 85.36 -1.5 1264  
## 743 2278 6.04 86.38 -0.3 82  
## 2934 2568 5.66 89.43 -0.8 388  
## 3428 2436 5.85 92.93 -0.9 1130  
## 399 1983 6.56 87.60 -0.2 654  
## 2604 2205 5.89 89.11 -1.4 1227  
## 4373 2181 5.84 85.09 -0.9 572  
## 942 2141 6.12 88.01 -0.8 884  
## 1053 2241 6.23 89.20 -0.2 470  
## 2953 2143 6.15 87.25 -0.1 336  
## 4936 2372 5.52 89.11 -0.9 1044  
## 5003 2303 5.51 85.53 -1.2 867  
## 4124 2157 6.14 92.97 -0.4 1313  
## 5371 2167 6.30 84.23 -0.6 64  
## 3858 2343 6.28 89.01 -0.3 120  
## 1400 2128 7.01 91.79 0.5 133  
## 1589 1774 5.39 68.02 -1.5 13  
## 5087 2121 6.29 89.46 -0.1 617  
## 5029 2166 6.37 91.10 0.0 790  
## 3763 2209 6.27 88.57 -0.2 290  
## 571 2219 6.30 89.08 -0.1 327  
## 5319 2383 6.49 91.15 0.3 142  
## 4342 2067 6.43 85.45 -1.6 674  
## 4635 2200 6.44 88.36 -0.3 60  
## 4963 2252 6.28 92.03 -0.5 986  
## 2612 2472 5.65 92.91 -1.2 1202  
## 976 2348 5.87 89.01 -1.0 705  
## 1324 1940 6.62 86.36 0.5 218  
## 2844 2349 6.13 91.11 -0.4 609  
## 2804 2213 6.20 91.26 -0.1 703  
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## 1819 2045 6.36 91.49 0.3 1138  
## 3630 2158 6.09 86.33 -0.4 614  
## 440 1973 6.84 89.80 0.4 570  
## 330 2345 6.42 94.24 -0.1 833  
## 740 2044 6.65 87.20 0.9 84  
## 4198 2200 5.73 88.85 -1.1 1054  
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## 4654 2324 6.10 86.90 -0.5 48  
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## 4980 1858 6.25 85.38 -0.1 946  
## 2933 2378 6.25 91.42 0.0 389  
## 681 2173 6.68 89.04 0.6 149  
## 3770 2289 6.31 91.05 -0.2 268  
## 349 2021 6.51 90.08 0.2 790  
## 3162 2257 6.08 87.16 0.1 37  
## 619 2304 6.65 93.58 0.4 232  
## 3881 2501 5.82 87.53 -0.8 98  
## 3572 2149 6.32 89.53 -0.2 815  
## 1229 2372 5.92 87.49 -1.4 308  
## 680 2373 6.00 87.04 -0.2 151  
## 1119 2237 5.93 85.23 -0.5 394  
## 303 1825 6.53 86.30 0.2 892  
## 2574 2058 5.79 88.37 -0.9 1404  
## 1415 2102 6.50 85.53 -0.1 123  
## 1735 2092 5.63 87.92 -0.6 1582  
## 3866 2438 6.09 89.52 -0.1 110  
## 3624 2233 5.93 88.17 -0.8 639  
## 762 2377 6.27 89.89 -0.4 67  
## 3377 2191 5.35 85.96 -2.0 1282  
## 4494 1911 6.73 85.71 0.5 285  
## 2268 2148 6.06 84.67 -0.4 149  
## 1317 2203 6.63 89.74 0.5 229  
## 2083 2142 6.54 91.28 0.6 478  
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## 4952 1938 5.91 83.21 -0.8 1009  
## 632 2348 5.97 89.06 -0.2 213  
## 4850 2304 5.27 86.54 -1.9 1442  
## 4436 2401 5.97 90.27 -1.1 433  
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## 2972 2189 6.41 89.99 0.8 293  
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## 245 2235 5.95 89.71 -0.8 1016  
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## 2938 2347 6.16 91.85 -0.2 372  
## 4273 1995 6.26 87.97 -0.2 859  
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## 311 2187 6.18 89.34 -0.3 879  
## 5099 2281 6.09 89.60 -0.5 587  
## 4456 2177 5.79 82.90 -1.3 387  
## 4967 2239 6.22 91.14 -0.5 976  
## 4955 2101 6.48 92.00 -0.2 1006  
## 789 1937 6.94 87.98 1.1 52  
## 5187 2254 6.46 92.47 0.3 398  
## 1386 2199 6.96 93.67 0.4 149  
## 3536 2063 5.71 84.47 -1.1 907  
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## 224 2135 6.19 90.61 -0.1 1051  
## 3376 2240 6.03 92.32 -0.5 1283  
## 326 2209 6.35 91.63 0.1 838  
## 2036 2435 6.07 91.54 -0.5 592  
## 2124 2130 6.40 89.28 0.4 396  
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## 4833 2068 5.39 85.90 -1.7 1718  
## 4047 1970 5.73 90.15 -1.0 2371  
## 3795 2190 6.48 87.64 -0.1 215  
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## 846 1447 5.67 65.39 -0.8 16  
## 3730 2437 5.95 91.26 -0.6 344  
## 5081 2277 6.44 93.47 -0.5 635  
## 3026 2213 6.61 89.74 0.5 200  
## 1921 2435 6.17 94.55 -0.1 900  
## 572 2190 6.26 87.52 0.1 327  
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## 3829 2142 6.52 88.30 0.4 150  
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## 3151 1954 5.54 74.02 -1.1 45  
## 1501 1987 7.31 91.24 1.8 62  
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## 5153 2210 6.08 89.25 -0.4 477  
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## 1953 2352 5.76 88.54 -1.1 813  
## 3086 2201 6.05 85.48 -0.6 128  
## 3087 2183 5.46 80.27 -1.1 127  
## 4189 2228 5.99 92.26 -0.8 1091  
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## 2255 2232 6.64 93.26 0.9 166  
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## 4160 1921 5.99 86.36 -1.0 1184  
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## 1526 2249 6.33 87.67 -1.3 50  
## 4983 2275 5.48 87.76 -1.3 934  
## 4253 2046 6.28 87.53 -0.9 919  
## 404 2323 5.63 88.46 -0.9 642  
## 3741 2369 6.33 92.02 0.0 324  
## 4515 2143 6.50 90.85 0.6 242  
## 4235 2073 6.38 90.63 0.4 957  
## 219 2384 5.54 90.57 -1.7 1061  
## 3131 2032 6.15 81.23 -0.4 66  
## 1412 2589 5.71 80.16 -10.4 126  
## 3148 2342 5.96 85.64 -0.5 47  
## 1719 2105 5.58 88.45 -1.1 1815  
## 2236 2493 6.04 90.05 -0.5 193  
## 692 2462 5.97 90.58 -0.5 144  
## 3071 2556 5.94 91.22 -0.4 139  
## 729 2130 6.07 83.31 -0.5 95  
## 484 2004 6.34 85.91 0.1 464  
## 2033 2178 5.79 86.27 -0.8 599  
## 3178 2003 6.38 84.57 0.2 22  
## 2526 2011 5.75 90.04 -0.8 2053  
## 1995 2418 5.83 91.40 -0.7 692  
## 5013 2276 5.98 89.83 -0.6 838  
## 1940 2378 5.58 89.59 -1.1 861  
## 4477 2179 5.84 84.67 -1.0 327  
## 3851 2259 6.56 90.14 0.4 125  
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## 4958 2068 6.65 92.45 0.5 997  
## 4927 2197 5.91 90.66 -1.0 1054  
## 5057 2122 6.10 86.72 -0.8 697  
## 3013 2340 6.03 87.64 -0.2 216  
## 4675 2208 6.05 85.85 -0.7 26  
## 2380 2022 6.36 84.58 0.2 27  
## 1878 1916 6.46 88.62 0.5 981  
## 517 2193 6.57 90.50 -0.9 426  
## 1350 2156 6.23 87.28 0.1 186  
## 4503 2404 5.74 88.85 -0.9 264  
## 2706 2524 5.56 92.12 -1.2 957  
## 3414 2413 5.83 92.65 -1.0 1167  
## 3733 2253 6.07 88.67 -0.5 341  
## 3423 2025 6.37 91.21 0.2 1144  
## 3357 2128 6.09 91.94 -0.4 1498  
## 702 1950 7.40 91.84 1.7 135  
## 2120 2072 6.18 86.96 -0.1 404  
## 2156 2573 6.33 97.79 0.4 345  
## 3545 2181 6.20 91.88 -0.2 892  
## 527 2575 5.72 91.45 -2.4 407  
## 4374 2304 6.23 91.79 -0.6 571  
## 2568 2251 4.76 81.82 -2.7 1447  
## 1460 2258 6.48 89.15 0.5 90  
## 3101 2454 5.93 88.25 -0.2 105  
## 4625 2130 6.70 89.10 0.1 76  
## 3546 2195 5.95 89.39 -0.7 892  
## 2323 2086 6.18 85.65 0.1 78  
## 2758 2368 5.29 86.77 -1.8 829  
## 4350 2067 6.52 90.31 0.4 659  
## 1358 2201 6.20 86.60 -0.6 181  
## 5140 2066 6.22 85.82 -0.3 498  
## 4543 2210 6.28 87.90 -0.3 203  
## 3660 2043 6.66 90.01 0.4 522  
## 3940 2466 6.14 90.61 -0.3 17  
## 2099 1891 6.50 86.46 0.3 444  
## 2782 2186 6.21 90.98 -0.5 774  
## 2917 1988 6.49 88.16 0.2 427  
## 2028 1751 6.18 81.96 0.1 609  
## 4633 2180 6.05 84.21 -0.4 64  
## 2283 2392 5.93 87.14 -0.5 134  
## 4578 2068 6.27 83.72 -0.5 144  
## 2181 1977 6.57 88.06 0.5 297  
## 3190 2271 6.05 85.43 -0.2 15  
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## 3153 2135 5.87 81.89 -0.8 44  
## 5345 2271 6.13 85.73 -0.9 90  
## 4216 2097 5.85 88.16 -0.8 1008  
## 5209 2273 5.79 86.36 -1.4 357  
## 2761 2203 5.79 87.60 -0.7 818  
## 5249 2026 6.08 81.54 -0.5 253  
## 2818 2259 5.98 89.40 -0.5 657  
## 482 2302 5.58 86.37 -0.9 468  
## 2619 2409 5.66 91.53 -1.4 1176  
## 3922 2035 6.84 89.69 1.3 34  
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## 4349 2338 5.90 90.68 -0.8 660  
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## 3533 2100 6.22 88.84 -0.2 911  
## 2994 2290 5.79 86.48 -0.5 247  
## 3762 2547 5.59 90.56 -1.0 294  
## 3734 2171 6.52 90.21 0.2 340  
## 3584 2154 5.54 83.51 -1.2 769  
## 3694 2008 6.29 85.40 -0.3 433  
## 2065 2259 5.62 86.36 -1.0 522  
## 2127 2393 6.17 92.69 -0.1 392  
## 1542 1715 5.33 69.26 -1.4 40  
## 5290 2169 6.46 87.84 0.2 185  
## 4474 2041 6.37 86.47 -0.7 334  
## 4161 2080 5.56 86.66 -0.9 1181  
## 470 2116 6.18 88.86 0.1 498  
## 4435 2253 6.20 90.98 0.2 437  
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## 3600 2017 5.78 82.90 -0.9 723  
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## 5352 2149 6.04 84.09 -0.6 85  
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## 1590 2016 5.12 73.26 -1.8 12  
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## 1524 1903 6.44 83.46 0.0 52  
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## 138 1988 5.79 88.27 -0.9 1480  
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## 4360 2193 5.81 86.59 -0.8 624  
## 2207 2305 5.87 87.29 -0.5 255  
## 949 1920 6.62 89.90 0.5 850  
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## 2326 2219 6.32 88.20 0.1 73  
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## 2884 2072 6.57 88.85 0.4 503  
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## 2676 2157 5.79 87.80 -1.0 1016  
## 4687 1975 6.08 80.69 -0.4 16  
## 1198 2284 6.34 92.08 0.1 340  
## 327 2241 6.38 94.01 0.2 836  
## 3029 2266 6.05 86.63 -0.3 198  
## 1936 2208 6.38 93.41 0.1 865  
## 4544 2355 6.34 91.14 0.3 201  
## 963 1988 6.24 88.08 0.1 776  
## 3016 2201 6.67 91.81 0.6 213  
## 4141 2162 6.32 94.20 -0.4 1242  
## 2813 2043 6.32 89.28 0.2 673  
## 535 2182 6.39 90.50 0.4 392  
## 3911 1952 6.42 82.63 0.2 50  
## 1828 2122 6.11 89.30 -1.8 1112  
## 2337 2431 5.85 87.33 -0.6 66  
## 3089 2246 6.17 87.51 -0.1 123  
## 1025 2354 6.07 92.56 -0.5 519  
## 3706 2331 5.80 87.12 -0.9 415  
## 3012 1944 7.05 89.54 1.4 216  
## 3789 2413 6.02 90.02 -0.3 234  
## 998 1936 6.85 91.00 0.9 609  
## 1083 1927 6.49 87.45 0.2 422  
## 4628 2232 6.04 85.79 -0.7 72  
## 503 2078 6.10 85.80 -0.2 443  
## 315 2203 6.22 91.49 -1.0 872  
## 3498 2170 5.74 88.37 -1.0 975  
## 4313 2192 6.56 93.72 0.2 767  
## 1065 2247 5.98 87.53 -0.2 447  
## 2167 2282 6.07 87.83 -0.5 330  
## 1331 2223 5.93 87.15 -0.4 205  
## 1411 2313 6.22 87.54 -0.9 127  
## 2029 2238 6.23 91.90 0.4 608  
## 2412 2007 5.90 78.34 -0.6 10  
## 565 2255 6.08 88.40 -0.4 338  
## 3900 2477 5.45 84.81 -1.5 71  
## 656 2154 6.62 91.56 0.4 185  
## 3525 2490 5.98 94.93 -0.9 930  
## 3929 2522 5.42 84.43 -1.7 29  
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## 4932 2238 5.63 89.09 -0.8 1048  
## 634 2176 6.40 89.68 0.2 209  
## 2395 2039 5.34 74.71 -1.4 19  
## 4665 2113 6.66 88.60 0.1 42  
## 3645 2276 6.06 89.23 -0.6 585  
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## 905 2029 6.00 87.02 -0.5 1033  
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## 2100 2111 6.55 91.77 0.6 438  
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## 704 2206 6.82 92.14 0.9 134  
## 3580 2214 6.30 93.28 0.0 786  
## 1973 2219 6.20 90.19 -1.6 742  
## 1134 2369 6.37 94.96 0.0 381  
## 5228 1981 6.35 86.56 0.3 291  
## 3722 2030 6.83 90.43 0.9 366  
## 2890 2345 6.03 90.90 -0.5 499  
## 4210 2074 5.77 85.72 -0.9 1025  
## 1488 2339 6.25 90.21 0.2 73  
## 3408 2292 5.51 90.26 -1.5 1175  
## 146 1789 5.88 80.28 -4.6 1439  
## 2276 2588 4.88 83.68 -1.9 138  
## 1847 2260 5.58 87.74 -0.9 1053  
## 3388 2129 5.53 85.33 -1.6 1236  
## 4418 2301 5.98 89.42 0.0 463  
## 2017 2427 5.40 86.93 -1.3 641  
## 1814 2093 5.55 87.05 -1.1 1144  
## 3566 2332 5.98 92.02 -0.5 847  
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## 4615 2291 6.33 88.64 -0.2 86  
## 5202 2041 6.12 85.86 -0.4 377  
## 4638 2454 5.31 82.58 -2.9 59  
## 2135 2255 5.80 86.30 -0.7 375  
## 5169 2165 6.35 90.37 -0.3 429  
## 2544 2134 5.86 91.45 -1.3 1795  
## 4441 2063 6.18 86.29 -0.3 416  
## 4546 2307 5.97 88.37 -0.7 194  
## 5132 2045 6.35 89.46 0.3 517  
## 2683 2001 5.95 88.05 -0.5 1006  
## 2839 2229 5.68 86.87 -1.1 619  
## 4389 2313 5.94 88.84 -0.4 534  
## 5170 2083 6.24 86.91 -0.1 426  
## 3650 2318 5.61 86.32 -1.1 557  
## 1157 1847 6.07 80.98 -0.3 367  
## 1211 2268 6.44 92.69 0.3 329  
## 3637 2129 5.95 86.40 -0.7 604  
## 3913 2027 6.77 87.93 0.9 45  
## 1541 1934 6.79 87.19 0.8 41  
## 1594 1617 5.08 64.01 -1.5 9  
## 3109 2255 5.98 87.66 -0.2 96  
## 1832 2239 5.79 89.92 -0.9 1101  
## 2716 2323 6.21 95.11 0.0 931  
## 4130 2229 5.54 90.46 -1.2 1295  
## 2609 2513 4.67 84.25 -3.1 1210  
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## 966 2021 5.97 85.22 -0.3 752  
## 1988 2246 6.04 89.83 -0.3 708  
## 601 2329 6.10 89.40 -0.8 267  
## 2278 2304 6.11 88.22 -0.2 136  
## 3686 2203 5.66 84.97 -1.3 458  
## 3118 2182 6.34 89.17 0.3 82  
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## 2263 2157 6.21 87.57 -0.2 155  
## 4262 2418 5.36 89.56 -1.9 890  
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## 563 2313 6.14 90.79 -0.3 342  
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## 2611 1975 5.63 84.68 -1.3 1203  
## 550 1933 6.14 82.39 -0.9 362  
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## 1896 2122 5.87 86.74 -0.8 948  
## 438 2011 6.85 93.09 1.0 575  
## 400 2244 6.25 90.84 -0.3 653  
## 2836 2120 6.18 90.07 0.1 628  
## 525 1807 6.23 81.97 -0.4 409  
## 3389 1819 6.34 87.23 0.0 1236  
## 5028 2271 5.83 90.17 -1.1 790  
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## 4896 2270 6.37 95.53 -0.4 1116  
## 1529 2298 6.19 88.70 -0.3 49  
## 2039 2008 5.99 85.86 -0.3 586  
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## 132 2083 5.74 90.29 -0.9 1555  
## 3721 2168 6.25 89.18 -0.3 369  
## 758 2251 6.48 91.28 0.2 69  
## 1500 2098 6.33 86.19 -0.2 66  
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## 2640 2111 6.54 96.46 0.3 1120  
## 2115 2218 5.24 81.08 -1.7 408  
## 1757 2151 5.95 91.91 -0.6 1372  
## 665 2015 7.04 91.42 1.2 173  
## 3712 2172 5.90 84.64 -0.6 390  
## 3938 1948 5.44 74.21 -1.2 20  
## 4387 2153 6.38 90.01 -0.4 536  
## 3081 2246 6.56 93.26 0.6 129  
## 700 2367 6.14 90.02 -0.1 136  
## 3845 2491 5.90 91.28 -0.6 131  
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## 2009 1975 6.28 87.59 0.1 665  
## 5294 2379 6.05 89.52 -0.4 179  
## 3909 2257 6.34 89.87 -0.4 55  
## 4610 1980 6.55 84.54 0.1 89  
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## 3798 2311 5.87 87.76 -1.2 210  
## 3662 2539 5.68 90.94 -1.0 517  
## 1096 2303 5.92 87.73 -0.8 409  
## 3846 2202 6.27 89.65 -0.1 131  
## 3585 2494 5.56 91.68 -1.7 768  
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## 1870 2248 5.59 87.92 -1.1 999  
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## 5338 2135 6.52 88.98 -0.3 104  
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## 839 2429 6.21 92.46 -0.5 19  
## 838 2089 5.76 81.86 -0.6 20  
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## 5098 2339 6.01 90.04 -0.9 591  
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## 4424 2001 6.35 88.65 0.2 451  
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## 373 2178 5.87 89.45 -0.6 719  
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## 4469 2147 6.52 90.71 0.3 351  
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## 4354 2225 5.87 89.75 -0.8 650  
## 884 1996 5.75 85.32 -0.8 1145  
## 2752 2150 6.16 91.48 -0.2 834  
## 1261 2112 6.36 86.81 -1.0 282  
## 3534 2120 6.24 91.69 -0.2 910  
## 5120 1979 6.06 84.49 -0.6 539  
## 1248 2305 6.32 91.13 0.0 290  
## 2821 2114 5.87 87.17 -0.6 655  
## 5208 2243 6.51 92.03 0.2 362  
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## 4158 2301 5.46 89.02 -1.4 1190  
## 3887 2256 5.84 86.75 -0.6 90  
## 4327 2106 6.06 89.15 -0.9 721  
## 5387 2214 6.15 87.68 -0.1 43  
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## 4341 2119 5.66 84.67 -1.6 678  
## 5103 2167 5.85 86.98 -0.9 576  
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## 5086 2226 6.01 89.48 -1.1 617  
## 2866 2128 5.87 87.06 -0.7 562  
## 2533 2120 5.24 87.84 -1.7 1974  
## 548 1917 6.46 84.61 -0.6 363  
## 2348 2351 5.64 84.70 -1.3 53  
## 1512 2223 6.73 93.86 0.6 58  
## 1376 2190 5.95 85.30 -0.6 162  
## 3064 1976 6.38 85.57 -0.1 150  
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## 3708 2354 5.46 86.58 -1.1 412  
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## 2125 2004 6.42 86.64 0.4 395  
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## 2725 2285 5.90 91.70 -0.7 908  
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## 2285 2302 6.42 90.84 0.2 130  
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## 2144 2522 5.77 92.48 -0.8 361  
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## 5326 2180 5.15 79.25 -1.4 123  
## 4257 2182 5.65 86.04 -1.1 907  
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## 4493 2371 6.16 92.28 -0.5 290  
## 4655 2411 5.06 81.76 -2.1 47  
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## 2362 1987 6.86 89.02 1.1 42  
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## 3381 1886 6.12 87.13 -0.5 1264  
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## 5207 2205 6.53 91.04 -0.2 365  
## 1874 2146 6.14 92.58 -0.3 994  
## 5347 2152 6.45 87.64 -0.1 89  
## 2684 1959 6.43 90.90 0.1 1002  
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## 4186 2227 6.43 95.82 -0.5 1102  
## 1978 2198 5.53 86.18 -1.2 728  
## 3617 1924 6.23 86.87 -0.2 652  
## 560 2045 6.67 89.54 0.5 347  
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## 5191 2171 6.01 87.77 -0.9 393  
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## 3680 2211 6.46 92.13 0.2 473  
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## 2189 2179 5.65 82.81 -1.3 281  
## 1882 1936 6.38 89.80 0.0 978  
## 1241 2003 6.55 89.66 0.4 299  
## 2906 2191 6.49 92.32 0.4 448  
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## 1312 2164 6.63 90.33 -0.3 233  
## 3193 2293 5.95 85.44 -0.8 13  
## 574 2323 5.67 87.29 -0.9 325  
## 1455 2373 5.73 86.42 -0.9 97  
## 2870 2218 6.05 88.73 -0.5 533  
## 4959 2015 6.33 90.79 -0.6 997  
## 3379 2032 5.57 86.10 -1.2 1270  
## 5369 2143 7.08 94.90 1.2 65  
## 582 2153 6.12 89.16 0.1 303  
## 1876 2249 6.07 92.82 -0.5 987  
## 3096 2398 5.70 86.33 -1.1 115  
## 3614 2024 5.98 85.31 -0.8 664  
## 3821 2352 6.15 90.52 -0.2 164  
## 5046 2094 5.99 88.86 -0.7 733  
## 3455 2131 5.64 87.78 -1.3 1057  
## 5032 2140 6.08 89.31 -0.8 789  
## 1499 2325 5.87 86.53 -0.5 66  
## 5216 1901 6.29 84.67 -0.3 323  
## 4565 2328 6.36 91.73 0.1 167  
## 4179 2053 5.84 87.61 -1.0 1120  
## 3800 2223 6.43 92.37 0.3 208  
## 5205 2109 5.75 83.80 -0.7 368  
## 4514 2236 6.23 90.96 -0.3 248  
## 5063 2014 6.79 92.33 0.4 682  
## 231 2228 5.91 91.12 -0.9 1040  
## 405 2067 6.45 91.59 0.3 640  
## 3824 2145 6.12 87.37 -0.3 157  
## 3633 2363 6.19 95.00 0.1 612  
## 3910 2395 5.96 90.37 -0.5 50  
## 3914 1906 5.80 78.19 -0.7 45  
## 4568 2020 7.09 93.77 1.0 156  
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## 1177 2429 5.46 88.47 -1.2 357  
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## 1052 1842 6.58 87.76 0.3 470  
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## 4270 2129 6.42 92.64 0.2 867  
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## 1598 1716 5.03 66.24 -1.1 7  
## 4295 2365 5.71 91.68 -1.3 811  
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## 2137 2218 5.60 83.83 -1.0 373  
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## 1818 2343 5.30 88.23 -1.8 1141  
## 5316 2126 6.41 88.69 -0.3 149  
## 990 2054 5.59 83.28 -1.3 645  
## 4443 2030 5.92 84.26 -1.4 412  
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## 4612 2046 6.50 87.11 0.0 88  
## 3832 2303 6.18 88.95 -0.2 147  
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## 5016 2296 5.29 86.01 -1.6 833  
## 2975 2168 6.06 87.88 -0.5 290  
## 2161 2314 5.75 89.06 -0.8 338  
## 2984 2424 5.72 87.65 -1.1 263  
## 1285 1981 6.19 85.96 0.0 255  
## 2912 2406 5.74 90.38 -1.3 436  
## 2356 2367 5.33 82.92 -1.1 45  
## 1237 2293 5.92 87.04 -1.1 300  
## 5243 2229 5.76 85.30 -1.2 265  
## 1033 2028 6.33 88.50 0.0 503  
## 5400 2407 5.83 88.10 -1.1 31  
## 1262 2170 6.39 89.23 -0.3 282  
## 2345 1745 5.02 68.67 -1.6 60  
## 5364 2020 5.78 81.96 -0.4 69  
## 1943 2400 5.27 87.11 -2.5 847  
## 4209 2294 5.99 94.60 -0.2 1025  
## 1458 2159 5.88 84.31 -0.4 92  
## 4689 2143 5.15 75.53 -1.9 15  
## 1233 2351 6.22 93.28 -0.3 304  
## 1028 2166 5.92 86.42 -1.1 511  
## 3671 2054 5.86 83.92 -0.8 500  
## 3143 2444 5.63 88.66 -1.1 53  
## 2922 2516 5.75 90.95 -1.0 414  
## 2986 2149 6.25 88.22 0.0 256  
## 4921 2089 6.36 92.34 -0.2 1066  
## 283 2159 5.61 87.67 -1.5 934  
## 3543 1987 5.78 84.80 -1.1 900  
## 5233 1936 6.70 87.82 0.3 281  
## 4609 2553 5.51 88.32 -1.3 94  
## 2901 2013 5.67 80.83 -1.0 455  
## 982 2328 6.08 92.04 -0.6 662  
## 873 2318 5.32 89.80 -1.5 1226  
## 2351 2435 5.78 87.73 -1.0 48  
## 1287 2239 6.36 91.88 -0.2 253  
## 790 1920 6.00 81.08 -0.3 52  
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## 2196 2357 5.30 85.36 -1.5 273  
## 652 2422 5.50 87.46 -1.7 189  
## 1113 2204 6.27 91.47 -0.4 396  
## 4945 1988 5.56 84.48 -1.2 1029  
## 596 2216 5.95 88.47 -0.4 276  
## 2231 2200 6.87 95.21 1.0 202  
## 2215 2387 6.05 90.73 -0.4 229  
## 4973 2045 5.58 85.19 -1.1 959  
## 3717 1910 6.63 87.92 0.7 382  
## 3095 2208 6.31 88.53 -0.2 116  
## 1464 2460 6.95 96.03 -2.3 85  
## 5251 2117 6.47 89.42 0.1 252  
## 1341 2163 6.82 95.65 0.9 194  
## 2213 2265 5.97 89.46 -0.6 237  
## 1218 2196 6.34 89.82 -0.5 322  
## 2916 2026 5.86 84.77 -0.5 429  
## 3627 1828 5.98 82.19 -0.6 624  
## 4971 2030 6.32 92.17 -0.3 966  
## 4919 2192 5.92 90.14 -1.1 1067  
## 5358 2058 6.46 87.89 0.1 80  
## 2966 2388 6.03 91.99 -0.7 311  
## 2812 2301 5.62 88.99 -1.1 678  
## 4929 1903 5.90 84.52 -1.1 1053  
## 2867 1980 6.50 91.05 0.2 562  
## 826 1838 5.81 75.55 -0.5 24  
## 3589 2215 5.61 88.27 -1.1 761  
## 2330 1957 6.39 83.83 -0.1 70  
## 361 1860 5.53 78.04 -1.3 757  
## 4487 2114 6.30 88.32 0.0 302  
## 4128 2232 5.17 84.73 -3.1 1300  
## 5136 2152 6.13 88.42 -0.6 501  
## 1991 2203 5.45 86.56 -1.2 696  
## 3134 1827 6.55 84.69 0.9 65  
## 3076 2405 5.66 87.50 -1.2 134  
## 1251 2179 6.05 88.87 -0.2 286  
## 3611 2150 5.48 82.44 -1.9 676  
## 861 1680 5.42 69.81 -1.0 10  
## 5159 2033 6.63 91.20 0.3 462  
## 2964 2415 5.44 86.91 -1.2 312  
## 529 2051 6.12 86.39 -0.7 403  
## 2237 2373 5.69 87.89 -1.1 193  
## 445 2269 6.02 90.62 -0.4 556  
## 3578 2093 5.35 83.66 -1.7 800  
## 3072 2087 5.85 82.51 -0.9 137  
## 2688 2362 5.57 91.79 -1.3 995  
## 2070 2274 5.88 89.50 -0.8 514  
## 3168 1687 5.36 69.50 -1.4 31  
## 4549 2232 6.21 87.73 -1.2 191  
## 4396 2161 6.61 94.68 0.4 499  
## 4868 1957 5.92 88.00 -0.7 1215  
## 1948 2183 5.63 88.57 -0.9 834  
## 5404 1945 6.43 85.38 0.1 26  
## 1197 1943 6.55 88.97 0.4 340  
## 3486 1986 6.51 93.29 0.4 997  
## 5080 2147 6.01 88.60 -0.9 637  
## 1234 2234 5.97 86.74 -0.9 304  
## 3737 1887 6.66 86.63 0.2 330  
## 848 1417 5.62 53.37 -12.9 15  
## 5125 2365 5.71 89.03 -1.1 535  
## 1225 2102 6.62 91.71 0.6 313  
## 4363 2504 5.59 91.51 -1.6 615  
## 2857 2148 6.05 90.16 -0.5 574  
## 5258 2105 6.32 88.29 -0.5 239  
## 5130 1951 6.81 91.21 0.4 520  
## 2130 2313 6.42 93.65 0.4 387  
## 4162 2186 6.18 94.61 -0.4 1178  
## 1173 2365 5.47 87.86 -1.3 359  
## 4518 2010 6.24 85.90 -0.1 238  
## 4442 2327 5.65 87.32 -1.1 414  
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## 3434 2029 6.39 92.43 0.0 1110  
## 858 2254 6.24 90.16 -0.5 12  
## 180 1979 6.62 93.85 0.7 1177  
## 3707 2307 5.55 87.37 -1.3 414  
## 406 1929 6.22 86.79 -0.3 639  
## 4393 2236 6.06 89.63 -0.5 505  
## 796 2296 6.01 89.86 -0.2 48  
## 2624 2207 5.47 88.79 -1.5 1160  
## 4934 1969 5.94 85.95 -0.7 1048  
## 3487 2119 6.01 90.70 -0.7 996  
## 4570 2263 5.96 88.97 -0.4 153  
## 1103 2406 5.78 91.37 -1.1 403  
## 5212 2267 6.52 93.14 0.1 338  
## 2414 2050 5.30 76.21 -1.4 7  
## 1057 2216 6.00 89.00 -0.8 460  
## 4324 2224 5.76 86.01 -3.2 729  
## 3720 2113 5.83 83.84 -0.8 374  
## 3518 2238 6.09 93.51 -0.4 944  
## 3417 2051 5.88 88.34 -0.6 1159  
## 4933 2316 5.76 92.98 -1.4 1048  
## 5385 2118 6.22 84.85 -0.5 44  
## 3825 2048 6.34 87.39 0.0 156  
## 5129 2001 6.32 87.82 0.0 525  
## 4375 1926 6.37 87.88 -0.2 570  
## 1439 2319 5.95 88.41 -0.6 110  
## 800 2200 6.03 86.71 -0.1 43  
## 2711 1884 6.36 89.59 0.2 945  
## 1367 1663 7.15 88.35 1.2 171  
## 4913 2294 5.39 87.75 -1.5 1077  
## 250 2117 6.83 99.00 0.9 1012  
## 1399 2216 6.23 88.44 0.0 133  
## 4454 2235 6.07 88.53 -0.9 388  
## 394 1982 6.26 89.17 -0.2 669  
## 2058 2053 6.91 95.80 1.4 542  
## 161 2037 5.60 87.39 -1.3 1281  
## 1987 2160 6.11 92.07 -0.1 708  
## 3384 2110 5.91 90.24 -0.8 1253  
## 5118 2102 6.55 91.04 -0.2 543  
## 4380 2440 5.99 94.78 -0.9 565  
## 636 2169 6.39 89.73 0.2 205  
## 1110 2240 6.20 90.24 -0.2 397  
## 1037 2300 6.31 87.30 -6.1 497  
## 967 2072 5.75 86.37 -1.3 748  
## 5339 1918 6.78 87.86 -0.7 101  
## 2363 2133 6.37 87.24 0.0 41  
## 1193 1998 6.58 90.38 0.5 343  
## 2111 2046 6.28 84.42 -2.9 414  
## 3558 2337 5.33 87.80 -1.9 862  
## 4339 1914 5.53 80.21 -1.0 687  
## 2274 2353 6.11 91.50 -0.1 141  
## 4485 2033 6.34 87.69 -0.4 306  
## 4274 2293 6.08 94.28 -1.0 858  
## 761 2343 6.26 92.20 0.1 67  
## 4254 2109 6.31 89.92 -2.3 908  
## 2085 2203 5.87 87.32 -0.8 467  
## 3874 2270 6.25 89.43 -0.4 105  
## 3724 2411 5.30 86.49 -1.6 363  
## 2960 2193 6.55 94.37 0.5 322  
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## 2031 2108 6.16 88.84 0.0 602  
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## 3843 2193 6.10 89.45 -0.2 133  
## 2618 2036 5.35 83.71 -1.8 1179  
## 1221 2152 6.60 92.82 0.8 319  
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## 2824 2291 5.58 89.85 -1.1 648  
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## 3187 2250 6.23 89.97 -0.5 15  
## 198 2266 5.49 88.75 -1.2 1123  
## 2201 2430 6.02 91.94 -0.3 267  
## 2219 2243 5.85 86.43 -0.6 224  
## 3512 2434 5.20 90.85 -2.0 952  
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## 4193 2142 5.60 89.26 -1.3 1079  
## 705 2116 6.56 90.67 -0.4 134  
## 2777 2118 5.57 84.82 -1.3 778  
## 1586 1954 5.50 76.22 -1.0 14  
## 3094 2388 5.98 90.02 -0.6 116  
## 3882 2142 6.18 88.56 -0.2 97  
## 1815 1881 6.18 89.58 -0.1 1143  
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## 2254 2296 6.52 94.50 0.5 169  
## 4657 2146 6.45 90.86 0.2 45  
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## 557 2068 6.27 89.46 -0.2 355  
## 1259 2166 6.02 87.70 -0.4 284  
## 4890 2064 5.23 84.18 -1.7 1136  
## 1964 2323 5.59 88.74 -1.2 770  
## 4423 2143 6.36 91.39 -0.3 456  
## 3753 2056 5.98 84.61 -0.7 302  
## 5242 2246 6.37 92.11 0.0 265  
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## 674 2295 5.12 80.90 -1.9 160  
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## 4215 2414 5.67 92.43 -1.8 1009  
## 2862 2126 5.39 84.16 -1.2 569  
## 2185 1992 6.47 88.78 0.1 285  
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## 690 1946 6.12 83.10 -0.4 145  
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## 4575 2340 6.30 92.24 0.2 145  
## 1941 2066 6.31 91.44 0.3 855  
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## 2140 2193 5.99 88.13 -0.2 369  
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## 5088 2102 5.81 84.55 -1.4 616  
## 675 2135 6.71 91.93 0.5 156  
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## 1849 1955 6.19 90.98 0.0 1053  
## 1539 2274 6.10 88.72 -0.3 41  
## 845 1651 5.21 58.04 -9.1 16  
## 855 1823 6.61 86.25 0.6 14  
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## 2302 2292 5.38 83.22 -1.1 104  
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## 4379 2193 6.47 93.13 -0.4 565  
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## 813 1894 4.96 70.43 -1.6 32  
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## 859 2286 6.22 91.77 0.0 11  
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## 4483 1938 5.75 81.67 -1.1 309  
## 3053 2242 6.08 89.51 -0.1 159  
## 4591 2018 6.02 83.03 -0.6 124  
## 844 2074 6.00 83.33 -0.6 17  
## 485 1972 6.46 89.21 0.2 463  
## 3100 2178 5.58 82.03 -1.3 108  
## 5391 2325 6.08 90.79 -0.3 39  
## 4563 1905 6.73 88.50 0.4 169  
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## 3105 2012 6.71 91.09 1.0 99  
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## 2894 2403 6.17 95.32 -0.2 488  
## 797 1852 6.70 86.98 0.4 46  
## 2315 1733 5.46 73.28 -1.3 88  
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## 791 2107 6.67 92.20 1.0 50  
## 3150 2310 5.63 86.67 -1.2 46  
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## 4248 2097 6.17 92.39 -0.6 932  
## 1967 1929 6.11 87.40 -0.3 762  
## 581 2187 5.79 85.54 -0.8 308  
## 4643 2082 7.10 95.78 1.1 58  
## 1034 1821 6.33 86.27 -0.1 502  
## 2364 2227 6.13 88.52 -0.2 41  
## 4596 2239 6.06 89.10 -0.4 120  
## 2390 2231 5.72 84.62 -0.8 21  
## 3939 1625 5.57 72.85 -0.9 19  
## 3812 2182 6.21 89.02 -0.3 181  
## 1270 2049 6.41 90.18 0.2 276  
## 3123 2076 6.10 86.58 -0.2 77  
## 4219 2366 5.36 90.57 -2.5 1002  
## 1223 1575 6.82 84.28 0.6 315  
## 2407 2251 6.32 89.45 -0.2 13  
## 2141 2171 5.78 86.50 -1.0 369  
## 698 2294 6.29 91.34 -0.1 137  
## 3129 2430 5.51 87.24 -0.5 70  
## 2218 2277 5.52 85.59 -1.4 225  
## 2132 2347 5.09 83.61 -1.9 384  
## 3805 2152 5.95 87.27 -0.9 192  
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## 4190 2070 5.59 87.58 -1.6 1086  
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## 4506 2359 6.30 94.01 -0.5 260  
## 1592 1791 5.37 73.88 -0.9 11  
## 5283 2127 6.23 88.80 -0.3 198  
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## 2160 2246 6.09 90.42 -0.4 340  
## 3836 2181 6.81 94.14 0.8 142  
## 4589 2379 6.06 91.71 -0.5 126  
## 2785 2066 6.21 90.71 -0.4 764  
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## 2184 2300 6.04 90.04 -0.6 292  
## 2296 2428 5.93 91.32 -0.5 107  
## 5303 2071 6.68 91.91 0.8 165  
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## 781 2129 5.53 81.69 -1.3 58  
## 5165 2360 5.94 92.29 -1.2 445  
## 5036 1883 6.59 90.03 0.2 767  
## 2616 1971 5.95 90.18 -0.6 1184  
## 5082 1956 5.54 81.41 -1.3 633  
## 616 2084 5.82 85.37 -0.8 240  
## 1560 2069 5.40 78.83 -0.7 31  
## 4597 2175 5.95 84.14 -1.9 116  
## 496 2102 6.55 93.98 0.5 450  
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## 547 2098 6.18 89.39 -0.2 365  
## 3859 2385 5.70 89.96 -1.0 120  
## 2989 2357 5.46 87.77 -1.3 252  
## 5126 1946 5.88 85.07 -0.7 534  
## 5273 2248 5.96 90.07 -0.5 215  
## 1016 2107 5.43 84.37 -1.3 553  
## 4422 1932 6.40 90.05 0.3 458  
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## 2133 2341 5.37 87.29 -1.1 383  
## 4377 1933 6.33 86.84 -0.4 568  
## 1533 1909 5.97 80.14 -0.4 46  
## 510 2227 5.78 87.63 -0.8 435  
## 2112 2151 6.17 90.02 -0.1 412  
## 4974 2192 5.56 88.51 -1.4 954  
## 3817 2343 5.99 92.55 -0.5 166  
## 2291 2289 5.75 87.80 -0.5 115  
## 5133 2263 6.05 91.33 -0.5 514  
## 4370 2208 6.15 90.86 -2.8 595  
## 4512 2261 5.69 88.46 -0.8 249  
## 4417 2143 5.84 86.04 -1.0 464  
## 3180 2010 6.06 83.99 -0.6 20  
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## 3084 2115 6.01 86.20 -0.6 128  
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## 5047 2065 5.79 85.94 -0.9 732  
## 775 2072 6.42 88.62 0.4 61  
## 5010 2021 5.71 85.13 -1.2 849  
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## 1191 2329 6.11 92.62 -0.3 345  
## 1503 2118 6.27 90.25 0.2 62  
## 3174 2576 5.53 91.09 -1.1 24  
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## 4447 2139 5.42 83.47 -1.8 401  
## 2252 2237 6.17 90.81 0.1 171  
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## 4869 2210 5.78 94.46 -0.8 1205  
## 1074 2129 5.92 89.16 -0.5 436  
## 3141 2175 6.32 88.55 -0.1 56  
## 4614 2306 5.48 84.87 -2.2 87  
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## 1216 2006 6.51 90.20 0.3 323  
## 3607 2261 6.11 92.25 -0.7 699  
## 2149 2470 5.43 90.57 -1.4 354  
## 1421 2231 6.03 89.29 -0.4 118  
## 3482 2234 5.54 89.52 -1.3 1009  
## 604 2184 6.07 90.08 -0.2 259  
## 5236 2161 6.01 87.71 -0.8 279  
## 5396 1936 5.64 77.74 -0.8 35  
## 2699 2070 6.13 92.59 -0.2 972  
## 2105 2270 6.09 92.30 -0.4 424  
## 780 2221 6.18 90.28 -0.3 59  
## 5402 2023 6.04 84.10 -0.5 28  
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## 1848 2105 5.78 88.85 -0.7 1053  
## 4481 2258 6.32 93.02 0.0 317  
## 624 2214 6.03 89.30 -0.5 229  
## 4213 2132 5.46 86.71 -1.7 1016  
## 625 1899 6.76 83.64 -3.6 225  
## 1231 2192 6.10 87.34 -1.7 305  
## 5054 2010 5.80 87.07 -0.7 702  
## 3819 2321 6.11 91.89 -0.6 165  
## 738 2074 5.92 85.56 -0.7 86  
## 1123 2117 6.45 91.72 0.1 390  
## 500 2024 6.09 86.24 -0.4 447  
## 3757 1885 6.57 89.75 0.5 298  
## 5302 2250 6.06 91.16 -0.4 165  
## 1004 2292 5.56 87.83 -1.4 597  
## 2287 2204 5.99 88.89 -0.1 123  
## 1530 2009 6.30 86.12 0.1 48  
## 561 2177 6.05 88.34 -0.5 345  
## 3530 1853 6.18 87.32 -0.2 914  
## 4904 2025 5.99 89.53 -0.9 1100  
## 5114 1708 6.28 82.04 -0.3 554  
## 4588 2244 6.04 88.92 -0.4 126  
## 3729 2309 5.61 87.72 -1.0 349  
## 1148 2128 6.28 89.93 -0.2 371  
## 2319 2151 5.88 85.89 -0.8 82  
## 4939 1987 6.01 89.21 -0.8 1038  
## 356 2086 5.62 87.46 -1.2 765  
## 3066 2365 5.79 89.32 -0.7 148  
## 1773 2093 5.75 92.65 -1.0 1300  
## 5330 2121 5.93 86.37 -0.9 116  
## 659 2130 6.56 93.47 0.5 182  
## 745 2166 6.34 90.98 0.0 80  
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## 4181 2351 5.29 89.00 -3.4 1117  
## 4584 2390 5.90 87.03 -3.5 128  
## 4531 1986 6.00 82.54 -1.1 216  
## 1884 2142 5.96 91.14 -0.5 975  
## 2865 2112 6.30 91.14 0.1 564  
## 1556 2169 6.44 92.46 0.3 33  
## 4282 2165 5.28 86.06 -2.0 838  
## 2238 1887 6.68 90.17 1.1 192  
## 2075 2194 5.74 87.91 -0.8 497  
## 2040 2250 6.49 97.00 0.3 586  
## 2845 2192 5.47 85.52 -1.4 606  
## 4165 1876 5.79 86.19 -1.2 1158  
## 1440 2265 5.81 87.61 -0.6 110  
## 4309 1801 5.90 84.05 -1.3 780  
## 3510 2176 5.31 86.59 -1.9 962  
## 3586 1969 6.22 89.21 -0.4 767  
## 1599 2389 5.45 87.75 -1.2 2  
## 1466 2231 5.85 85.91 -1.6 85  
## 2613 2229 5.63 92.39 -1.3 1193  
## 3807 1956 6.49 89.47 0.5 191  
## 266 2081 6.36 94.13 0.2 976  
## 2311 2461 5.69 90.50 -1.0 94  
## 4519 2391 5.96 93.36 -0.9 238  
## 3057 2136 6.65 94.28 0.8 157  
## 2165 2241 6.21 92.70 0.0 332  
## 3393 2046 5.96 92.57 -0.8 1227  
## 2275 1950 6.53 89.57 0.7 139  
## 4690 2194 6.36 87.95 -1.2 13  
## 2308 2117 5.92 86.50 0.1 99  
## 3033 2315 5.92 90.98 -0.6 193  
## 5091 2110 6.03 90.27 -0.9 609  
## 5156 2190 6.05 91.20 -0.1 466  
## 2335 2521 5.28 87.98 -1.9 68  
## 2990 2248 6.21 92.80 0.4 251  
## 1349 2203 5.93 88.38 -0.9 187  
## 2006 2144 5.30 82.84 -1.7 674  
## 304 2124 5.74 89.00 -1.2 892  
## 641 2226 6.24 90.35 0.0 198  
## 5146 2088 6.24 89.73 -0.2 484  
## 2961 2164 6.47 94.26 0.0 320  
## 1507 2346 6.19 93.19 -0.1 60  
## 4318 2281 5.87 92.11 -1.1 739  
## 851 2100 6.27 86.35 -0.4 15  
## 4685 2078 5.85 82.62 -1.2 17  
## 5085 2293 6.05 92.63 -0.9 620  
## 5427 2141 5.40 81.66 -1.6 5  
## 540 2080 6.61 93.59 0.4 372  
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## 1872 2195 5.54 89.51 -1.1 997  
## 3738 2165 6.33 91.51 -0.3 328  
## 2126 2401 5.49 88.73 -1.2 395  
## 3815 2235 5.89 87.44 -0.5 172  
## 4388 2101 5.97 87.44 -0.7 534  
## 5284 2260 5.85 87.61 -1.4 192  
## 3954 2098 6.50 91.09 0.7 9  
## 4329 2388 5.68 91.44 -1.5 720  
## 2205 2256 5.78 87.91 -1.0 258  
## 1416 2167 5.90 85.41 -1.6 122  
## 4284 2040 6.03 89.70 -0.8 836  
## 3899 1973 6.42 87.02 0.3 75  
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## 1423 2180 6.54 91.34 -0.2 117  
## 3527 2328 5.54 91.61 -1.3 927  
## 154 2173 5.35 84.16 -7.2 1323  
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## 3526 2046 6.13 91.70 -0.4 929  
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## 4523 2138 6.24 90.70 0.3 234  
## 2827 2415 5.50 89.56 -4.0 640  
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## 3185 2101 5.29 77.94 -1.5 16  
## 436 2130 5.92 89.01 -0.6 579  
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## 1383 2044 5.63 82.38 -1.2 152  
## 1984 2089 5.60 87.07 -1.2 715  
## 4168 1937 6.04 89.42 -0.6 1149  
## 5263 1982 5.86 82.43 -0.8 233  
## 486 2097 5.99 87.14 -0.7 462  
## 5100 2152 6.33 93.69 -0.2 578  
## 4446 2314 5.93 77.93 -12.0 401  
## 379 1963 5.95 86.30 -1.1 696  
## 1160 2222 5.97 90.90 0.0 364  
## 446 1980 6.19 88.89 -0.2 551  
## 5139 1994 6.17 87.41 -0.8 499  
## 5025 2287 5.90 92.91 -1.2 801  
## 3786 2166 6.23 92.07 0.2 242  
## 1552 2159 5.74 85.29 -0.6 36  
## 598 2390 5.41 86.53 -1.8 274  
## 3810 2254 5.64 86.02 -1.1 186  
## 3894 1977 6.04 83.38 -1.5 80  
## 3917 2077 6.19 87.98 -0.1 42  
## 4464 2227 6.09 92.95 -0.4 364  
## 3495 1964 5.89 88.56 -1.4 978  
## 2190 2254 5.97 91.67 -0.2 278  
## 4853 1999 5.83 90.21 -1.1 1356  
## 1485 1882 6.78 90.36 0.8 75  
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## 3133 2196 5.53 84.67 -1.1 66  
## 1219 2217 6.13 90.03 -0.8 322  
## 613 2384 5.01 82.54 -2.1 243  
## 1353 2050 6.35 88.72 0.1 185  
## 3647 2254 6.11 94.58 -0.1 575  
## 1027 2228 5.75 88.03 -1.3 512  
## 4451 2384 5.74 90.43 -1.3 398  
## 2392 1772 4.40 66.15 -2.3 21  
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## 2365 2013 6.43 88.99 0.5 40  
## 4478 1989 5.76 83.01 -0.9 326  
## 1159 2139 6.20 90.81 0.0 366  
## 5225 2292 6.15 91.54 -0.6 293  
## 4362 2263 5.69 89.71 -1.2 618  
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## 4632 2064 6.39 87.95 0.3 64  
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## 3895 2201 6.07 88.43 -0.2 79  
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## 3823 2229 5.78 85.85 -1.0 163  
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## 2762 1783 6.46 87.85 0.4 817  
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## 4476 2037 5.87 83.44 -1.5 328  
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## 4236 2100 5.88 89.98 -2.1 954  
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## 1068 1844 6.42 87.21 0.1 446  
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## 2837 1947 5.87 85.78 -1.1 627  
## 2194 2123 6.13 90.96 0.0 274  
## 2260 2489 5.54 90.80 -1.1 161  
## 3877 2229 6.34 93.37 0.0 104  
## 3017 2011 5.86 84.78 -0.7 212  
## 3683 2201 6.43 95.39 0.1 463  
## 2173 2259 6.11 91.72 -0.4 318  
## 4542 2006 5.89 82.54 -1.2 204  
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## 3766 1980 5.85 82.64 -0.8 276  
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## 4500 2212 5.99 89.03 -0.6 272  
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## 3618 2186 5.88 89.45 -0.7 652  
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## 5157 2198 5.91 90.49 -0.9 465  
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## 3163 2445 5.74 92.36 -0.9 35  
## 710 2014 6.37 88.03 0.1 124  
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## 1195 2158 5.93 89.11 -0.5 341  
## 5186 2123 5.79 86.53 -1.0 399  
## 3042 2179 5.82 88.46 -1.0 172  
## 2825 1810 6.04 84.43 -0.3 645  
## 2256 2329 5.57 87.04 -1.2 164  
## 2396 1945 5.21 75.23 -1.6 19  
## 2182 2570 5.25 91.19 -1.8 294  
## 4888 1941 5.39 86.35 -1.5 1140  
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## 1303 2090 6.45 89.22 -1.9 241  
## 2338 2375 5.87 92.86 -0.5 66  
## 2772 2053 5.60 86.41 -1.4 791  
## 3896 2249 6.03 90.78 -0.7 79  
## 5164 2235 5.08 83.30 -2.2 452  
## 1568 2600 5.18 88.82 -1.7 24  
## 801 2202 6.01 89.97 -0.5 43  
## 3669 1838 6.29 86.81 -0.2 501  
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## 3808 2263 5.85 89.52 -0.5 188  
## 2413 1530 5.13 49.83 -15.6 9  
## 827 2190 6.36 90.93 -0.2 24  
## 5375 1820 5.92 78.85 -0.8 59  
## 5090 2030 6.00 89.00 -0.7 610  
## 2204 2031 5.80 84.81 -0.8 263  
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## 2264 2287 5.76 89.60 -0.6 154  
## 4226 2275 5.47 92.09 -1.3 990  
## 1945 2042 5.72 87.63 -0.8 837  
## 3182 1892 4.65 70.09 -2.5 18  
## 5307 1881 6.40 87.29 0.1 157  
## 1792 2072 5.65 90.80 -1.1 1225  
## 691 2096 6.15 89.10 -0.2 145  
## 3188 2132 6.14 87.64 -0.3 15  
## 1922 2140 6.48 96.94 0.3 900  
## 5267 2007 6.04 85.81 -0.9 220  
## 2352 2218 5.86 88.69 -0.5 46  
## 5034 1705 6.07 84.79 -0.3 783  
## 3583 2246 5.42 90.26 -1.6 774  
## 3058 2298 6.01 91.12 -0.7 155  
## 5180 1968 6.24 88.90 -0.2 408  
## 2344 1985 6.09 86.57 -0.3 61  
## 2737 1838 6.06 88.67 -0.3 877  
## 3035 2403 6.27 95.35 -0.1 189  
## 3736 2239 5.84 89.71 -1.0 331  
## 4522 2150 5.84 87.59 -1.2 234  
## 831 2446 5.67 91.76 -1.3 22  
## 1250 2227 6.16 93.29 -0.1 289  
## 3673 2250 5.51 88.39 -1.6 497  
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## 3409 2125 5.96 94.02 -0.6 1174  
## 2230 2066 6.04 86.63 -0.7 203  
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## 3595 1852 5.80 85.68 -0.4 736  
## 3668 2170 5.65 87.99 -1.5 502  
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## 2301 2134 6.38 91.23 0.3 104  
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## 4618 1777 6.57 86.88 0.5 82  
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## 4475 2173 5.98 89.02 -1.2 330  
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## 793 2232 6.16 90.72 -0.4 48  
## 3559 2032 6.00 90.12 -0.9 861  
## 4537 2087 5.95 86.53 -0.7 209  
## 5275 2159 6.06 90.10 -0.4 211  
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## 5167 2060 6.33 91.81 0.0 436  
## 711 2235 5.65 88.18 -0.7 122  
## 2768 1996 6.28 92.51 0.0 802  
## 4535 2244 6.34 92.64 -0.6 210  
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## 3703 2123 5.79 88.97 -0.9 418  
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## 3888 1944 6.39 88.67 -0.1 88  
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## 479 2241 5.89 90.94 -0.6 481  
## 631 2008 6.66 92.71 0.7 215  
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## 5194 2113 6.26 92.00 -0.4 390  
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## 3739 1889 5.46 78.93 -1.3 327  
## 5021 2100 5.59 87.04 -1.5 823  
## 2980 2247 5.96 90.54 -0.5 283  
## 1163 2488 5.61 92.25 -1.2 363  
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## 2355 2200 5.27 83.57 -1.5 45  
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## 2251 2170 5.44 85.57 -1.1 171  
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## 3200 2098 6.31 90.77 -0.2 9  
## 1120 2207 5.83 90.11 -0.7 393  
## 4900 1779 6.08 87.04 -0.7 1110  
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## 3768 2157 5.60 87.55 -1.3 269  
## 4684 1884 5.76 82.65 -0.3 17  
## 3158 2254 5.73 89.75 -0.7 40  
## 5342 2084 5.72 84.79 -1.2 96  
## 3045 1983 5.92 86.16 -0.7 166  
## 3006 2159 6.17 90.72 -0.4 224  
## 2974 1850 6.43 89.46 0.4 292  
## 3801 2360 5.65 91.56 -1.2 203  
## 5377 2219 5.96 88.82 -0.8 57  
## 4590 2225 5.68 87.99 -0.9 125  
## 2885 2243 5.18 84.43 -2.1 501  
## 187 1809 6.23 89.44 -0.5 1157  
## 4640 2168 6.07 89.12 -0.4 59  
## 3931 1952 5.82 82.40 -1.0 26  
## 5203 2088 5.91 88.59 -0.9 373  
## 2375 2088 5.70 83.91 -1.1 29  
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## 3628 2225 5.53 88.24 -1.3 624  
## 2152 2120 6.05 89.44 -0.3 350  
## 4311 2241 5.52 91.08 -1.4 770  
## 5162 2223 5.96 91.53 -0.6 458  
## 5041 2058 5.80 89.29 -1.2 751  
## 1565 1557 5.12 68.78 -1.6 27  
## 407 2118 5.93 90.81 -0.7 639  
## 2067 2137 5.80 90.76 -0.8 521  
## 2367 2107 6.16 88.24 -0.1 39  
## 2898 1771 6.31 87.38 0.2 468  
## 620 2117 5.70 85.14 -1.0 231  
## 5261 2135 5.39 83.79 -1.7 235  
## 1073 2144 6.32 93.63 0.3 436  
## 3065 2216 6.05 89.94 -0.5 149  
## 4907 2173 5.86 95.16 -1.3 1089  
## 4449 1890 5.63 83.65 -1.0 399  
## 1861 2380 5.28 93.09 -1.8 1023  
## 742 1988 6.30 88.70 0.2 82  
## 3005 2386 5.19 88.26 -1.7 224  
## 5218 2005 6.01 87.40 -0.6 311  
## 595 2014 6.02 85.58 -2.7 276  
## 3764 2471 5.54 90.64 -1.8 278  
## 2146 2166 6.19 91.55 -0.1 356  
## 4286 1879 6.32 90.42 -0.3 835  
## 3806 2050 6.06 88.59 -0.3 191  
## 1260 1959 6.03 87.67 -0.3 283  
## 3146 2285 3.88 71.07 -4.8 48  
## 5278 2104 5.59 84.60 -1.4 201  
## 4479 2074 5.86 88.38 -0.6 324  
## 2829 2044 6.02 91.86 -0.4 636  
## 881 2143 5.42 90.36 -2.4 1153  
## 1450 1729 6.76 87.42 1.0 100  
## 4583 2211 5.30 82.21 -2.8 130  
## 2929 2183 5.61 86.64 -1.3 396  
## 5143 2129 5.62 87.40 -1.3 492  
## 1454 1894 6.08 85.19 -0.1 97  
## 1040 2213 5.57 88.52 -1.0 490  
## 5280 1985 6.55 90.04 0.0 200  
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## 5227 2102 6.17 92.65 -0.1 292  
## 4649 2217 5.85 88.43 -0.3 52  
## 2288 2452 5.52 90.51 -1.4 121  
## 1538 2056 6.59 91.23 0.1 43  
## 5134 2230 5.52 88.22 -1.4 513  
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## 1243 2236 6.25 93.31 -1.0 297  
## 621 2322 5.87 93.76 -0.5 231  
## 5265 2229 5.91 88.35 -1.5 227  
## 1043 2245 5.73 84.54 -5.6 488  
## 591 2277 5.44 88.96 -1.3 286  
## 196 1989 6.09 92.91 -0.6 1126  
## 2209 2124 5.70 85.55 -0.8 250  
## 1580 2039 5.28 80.19 -1.3 17  
## 1396 1794 6.40 86.39 0.3 133  
## 1866 1993 5.70 90.18 -0.6 1019  
## 1935 2421 5.00 89.14 -2.1 866  
## 3871 2281 5.92 90.03 -0.9 106  
## 4409 2018 5.63 86.56 -1.1 471  
## 805 1962 6.06 84.72 -0.6 39  
## 2020 2157 5.74 89.33 -1.1 635  
## 3925 2273 5.73 88.22 -0.9 32  
## 4525 2131 6.17 88.31 -2.6 232  
## 3778 2094 6.05 89.02 -0.4 252  
## 1583 1919 6.45 87.64 0.7 16  
## 2312 2089 5.81 86.79 -0.5 93  
## 5245 1851 6.52 89.28 0.0 255  
## 4652 2349 5.65 88.43 -1.4 48  
## 1397 1895 6.61 90.20 0.6 133  
## 1380 1993 6.22 89.19 0.2 153  
## 4510 2170 5.78 88.08 -1.8 252  
## 5109 2051 5.48 85.29 -1.6 562  
## 4679 2076 5.65 84.97 -0.9 22  
## 1573 2021 5.80 84.87 -1.0 21  
## 3695 2166 5.90 90.70 -0.8 432  
## 3099 1777 6.20 84.48 0.1 109  
## 4281 2051 5.68 87.34 -1.5 840  
## 1338 2291 5.41 86.24 -1.3 199  
## 2779 2035 5.38 85.68 -1.8 776  
## 5383 1862 6.20 84.92 0.3 48  
## 312 2121 6.12 92.15 -1.5 878  
## 3061 2252 5.75 88.92 -0.8 152  
## 2409 2114 5.60 84.22 -0.6 11  
## 4879 2050 5.25 87.87 -1.8 1169  
## 3063 2189 5.98 88.75 -0.6 151  
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## 4471 1849 6.16 86.68 -0.4 349  
## 2011 2213 5.47 89.11 -1.2 657  
## 4978 2228 5.39 88.75 -1.9 949  
## 5188 2169 5.71 87.53 -1.4 397  
## 3135 1894 5.53 78.92 -1.1 64  
## 1905 1723 5.93 86.86 -0.3 934  
## 2911 2317 4.98 84.72 -2.1 437  
## 4304 2158 6.00 92.05 -1.0 793  
## 1496 2153 6.80 95.84 0.9 67  
## 5105 1807 6.57 90.60 0.2 574  
## 1900 1583 6.44 88.08 0.3 941  
## 4532 2161 5.66 85.93 -1.3 214  
## 701 2238 5.52 85.93 -1.3 136  
## 1356 2022 6.40 91.18 -0.3 184  
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## 1419 2262 6.11 92.90 -0.3 119  
## 709 2063 5.81 86.88 -0.5 127  
## 4470 2284 5.21 85.98 -2.5 351  
## 2106 2228 5.77 89.84 -0.8 422  
## 1115 2166 5.84 89.23 -0.8 395  
## 2048 1993 6.02 86.92 -2.1 561  
## 667 2109 6.40 91.35 0.1 168  
## 3774 1944 6.03 88.15 -0.3 262  
## 4605 2016 5.90 86.36 -1.1 101  
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## 2887 2157 5.98 91.33 -0.4 499  
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## 2025 2287 5.54 90.35 -0.8 616  
## 3744 2016 5.90 87.96 -1.0 320  
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## 4501 2170 5.58 87.00 -1.2 271  
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## 5416 1975 5.66 82.28 -1.4 18  
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## 2697 1966 5.60 86.54 -1.1 975  
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## 4416 1868 6.62 91.70 0.2 465  
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## 5179 1969 5.99 87.98 -0.8 408  
## 735 2225 5.57 85.55 -1.1 88  
## 4538 2071 5.73 86.68 -0.9 209  
## 3664 2031 5.61 84.94 -1.1 510  
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## 5382 2312 5.60 87.83 -1.2 49  
## 5406 1901 6.54 87.42 -0.6 25  
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## 3038 2191 5.79 89.68 -0.7 177  
## 5195 2168 5.68 88.19 -1.8 389  
## 5094 2296 5.73 92.71 -1.2 598  
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## 3128 1609 4.56 65.50 -2.0 72  
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## 5337 2104 5.70 84.73 -1.3 105  
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## 5149 2111 5.73 89.57 -1.1 482  
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## 4915 2014 5.93 91.15 -0.7 1071  
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## 820 1840 6.39 88.45 0.4 28  
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## 5113 2297 5.80 92.82 -1.3 556  
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## 2400 1764 4.41 62.39 -6.5 16  
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## 2095 2286 5.59 91.96 -1.4 454  
## 4331 2041 5.54 88.36 -1.3 716  
## 4639 2177 5.01 81.67 -2.0 59  
## 301 2170 5.36 88.14 -1.6 893  
## 4678 2104 6.84 95.14 0.7 22  
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## 2098 1941 6.03 86.55 -0.6 450  
## 1480 2049 6.28 91.46 -0.1 76  
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## 494 2227 5.81 90.44 -1.2 454  
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## 5291 2294 5.77 91.38 -1.3 185  
## 4520 1891 5.96 86.26 -0.6 236  
## 2139 2236 5.65 90.98 -0.9 372  
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## 3649 2032 5.26 83.79 -1.7 560  
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## 3207 1631 5.77 75.93 -0.6 3  
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## 708 1911 5.93 85.08 -1.0 129  
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## 664 1866 6.22 88.07 -0.1 174  
## 3130 2129 5.70 86.71 -0.9 67  
## 4385 2055 5.43 84.64 -1.5 539  
## 1571 1637 4.61 66.71 -1.9 22  
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## 2910 1997 5.52 86.35 -1.3 439  
## 4534 2111 5.47 84.90 -1.7 210  
## 4290 1911 6.29 92.32 -0.2 828  
## 5376 1929 6.15 86.03 -0.4 58  
## 3127 2248 5.77 89.33 -0.8 73  
## 3041 2218 5.43 87.38 -1.5 172  
## 4556 2134 5.99 89.71 -1.0 177  
## 3681 2178 5.71 91.86 -1.0 471  
## 1309 2228 6.17 95.19 0.0 235  
## 2267 2085 6.04 90.21 0.1 149  
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## 2242 2147 5.97 89.35 -0.5 187  
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## 4551 2061 5.33 83.10 -1.4 188  
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## 869 2285 5.23 85.60 -1.6 4  
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## 3112 2234 5.80 89.05 -0.8 93  
## 3920 2428 5.69 93.76 -1.4 37  
## 1549 2039 6.13 91.05 0.0 37  
## 3070 2015 5.85 85.54 -0.8 140  
## 849 2388 5.33 88.71 -1.3 15  
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## 3897 2329 5.96 93.32 -0.6 78  
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## 4554 2150 6.12 92.12 -0.1 180  
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## 5248 2167 6.06 91.24 -0.7 254  
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## 2403 2129 5.19 83.46 -1.6 15  
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## 673 2056 5.38 83.19 -1.9 160  
## 3689 2179 5.23 86.01 -1.8 447  
## 2250 2303 5.50 88.73 -1.4 171  
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## 4457 2054 5.44 84.69 -2.3 386  
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## 1269 2023 6.01 89.80 -0.3 276  
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## 5331 2023 5.55 83.22 -1.5 114  
## 2066 2125 4.87 83.46 -2.4 521  
## 3923 2023 6.34 90.81 0.0 33  
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## 2203 2195 5.65 88.73 -1.1 263  
## 2747 1838 5.80 87.70 -0.7 846  
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## 2376 2396 5.74 92.82 -0.7 29  
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## 3043 1990 5.81 86.40 -0.8 172  
## 5374 1957 5.86 84.61 -1.2 59  
## 2687 1842 5.45 85.88 -1.4 997  
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## 5240 2089 5.88 89.39 -1.3 274  
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## 1375 2344 5.60 89.45 -1.8 162  
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## 1854 2171 5.57 92.44 -1.2 1041  
## 3775 2164 6.24 93.45 0.0 262  
## 5286 2341 5.82 93.68 -1.5 189  
## 3723 2262 5.27 88.38 -2.0 363  
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## 3115 2257 5.65 89.57 -2.2 89  
## 5270 2184 5.75 91.26 -1.1 218  
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## 3854 2215 5.64 90.07 -1.2 124  
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## 2728 2196 5.39 92.08 -1.6 893  
## 2191 2275 5.69 92.97 -1.0 278  
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## 2235 1963 6.14 88.44 -0.2 196  
## 843 1678 4.66 68.99 -2.3 17  
## 3496 1847 5.66 86.73 -1.1 977  
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## 765 1892 5.98 87.27 0.1 65  
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## 4594 2137 5.96 90.01 -1.1 120  
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## 2950 2198 5.65 90.12 -1.1 347  
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## 3679 2088 5.53 87.22 -1.6 478  
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## 5360 2208 5.84 91.18 -1.1 73  
## 3529 2111 5.46 88.85 -1.9 918  
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## 5282 2231 5.49 88.81 -1.2 198  
## 770 2132 6.46 94.24 0.3 64  
## 2983 2136 5.69 89.69 -1.0 270  
## 3875 1780 6.26 85.82 -0.1 105  
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## 4566 2129 5.96 68.26 -21.3 166  
## 5181 2028 5.94 89.51 -1.2 408  
## 2295 2289 5.57 89.53 -1.2 112  
## 1424 2070 5.90 86.72 -2.2 117  
## 3740 1876 5.86 86.10 -0.7 325  
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## 1226 2136 5.51 83.43 -4.5 311  
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## 5064 1984 5.65 89.17 -1.4 681  
## 645 1990 6.45 92.63 0.4 194  
## 862 1696 5.16 73.72 -1.3 9  
## 2244 2253 5.71 90.54 -0.9 185  
## 5215 2128 5.37 87.75 -1.9 331  
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## 847 1900 4.78 74.42 -1.9 16  
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## 2784 2057 5.80 91.04 -0.9 765  
## 3036 2272 5.35 88.88 -1.8 182  
## 1456 1915 6.28 88.34 -0.1 94  
## 3685 2059 6.21 93.71 -0.4 459  
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## 5423 1958 5.05 78.51 -1.5 14  
## 5211 2132 5.58 87.83 -1.5 346  
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## 2946 2118 5.47 86.24 -1.7 354  
## 1479 2090 5.84 88.61 -0.8 77  
## 3672 2031 5.78 89.30 -1.4 499  
## 3802 1961 5.23 80.10 -2.7 193  
## 5189 1853 5.60 83.22 -1.2 395  
## 5425 1678 5.36 76.67 -1.2 9  
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## 755 1879 5.99 73.64 -10.2 72  
## 3833 2429 4.72 84.54 -2.6 147  
## 2179 1642 6.48 87.79 0.4 299  
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## 3935 1610 4.63 67.70 -2.3 22  
## 2107 1790 5.93 85.90 -0.7 418  
## 3921 1824 6.72 92.96 0.7 35  
## 4680 1827 5.71 81.54 -0.4 19  
## 812 1948 4.69 74.93 -1.8 32  
## 776 2128 5.43 86.58 -1.3 59  
## 870 1486 4.55 64.03 -1.9 4  
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## 837 1007 5.67 64.80 -1.0 20  
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## 3137 2186 6.07 93.20 -0.4 59  
## 4688 2012 5.34 83.36 -1.7 16  
## 5190 2231 5.59 90.44 -1.3 394  
## 3567 1985 5.21 84.73 -2.1 840  
## 5112 2031 5.36 86.78 -1.8 557  
## 2416 1889 4.82 73.74 -2.3 5  
## 2769 1889 5.79 89.10 -1.0 796  
## 5401 1840 5.32 77.05 -1.8 28  
## 2381 2001 4.86 77.70 -2.3 27  
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## 3693 2328 5.42 92.98 -1.5 434  
## 5144 1812 5.74 84.82 -0.8 492  
## 3814 2094 5.80 90.76 -0.8 173  
## 5365 1877 6.09 85.74 -0.6 66  
## 749 1937 6.23 89.71 0.0 78  
## 2336 1742 5.61 80.49 -0.8 66  
## 3826 2190 5.31 87.18 -1.8 156  
## 1443 2121 5.86 90.21 -0.6 109  
## 1540 2024 5.84 88.19 -0.6 41  
## 1292 1594 6.46 85.91 0.3 248  
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## 5068 1903 5.85 88.53 -0.8 671  
## 4585 1810 5.96 84.52 -0.5 127  
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## 5048 2050 5.84 93.17 -1.2 728  
## 5315 1806 6.57 89.44 0.1 149  
## 1249 2111 5.86 91.20 -0.9 289  
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## 1220 2131 5.54 88.52 -1.2 320  
## 4508 2125 5.77 89.13 -1.5 258  
## 480 2173 5.85 93.59 -1.3 480  
## 3161 1930 5.98 86.62 -0.6 39  
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## 2748 2075 5.42 89.71 -1.6 842  
## 578 1859 5.56 83.21 -1.3 314  
## 3194 1847 4.55 73.38 -1.9 13  
## 3646 1922 6.01 91.28 -0.7 576  
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## 5317 2242 5.46 89.19 -1.9 144  
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## 4516 2148 5.31 86.22 -1.6 241  
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## 3942 2112 5.25 83.62 -1.6 17  
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## 4686 2274 4.94 83.44 -2.1 16  
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## 3648 1802 5.73 85.13 -1.0 574  
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## 3186 1841 5.87 83.35 -0.5 15  
## 4357 2227 5.99 96.05 -0.8 644  
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## 699 2020 5.83 88.61 -0.7 137  
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## 4408 2013 5.38 87.27 -1.7 473  
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## 5271 2234 5.86 93.21 -1.3 217  
## 3943 1890 5.94 85.53 -0.7 16  
## 3944 1863 4.83 75.51 -2.0 16  
## 3201 1892 5.21 80.97 -1.3 9  
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## 850 1805 5.73 82.99 -1.1 15  
## 5239 1886 5.49 84.48 -1.4 277  
## 1352 1854 5.63 84.30 -0.9 186  
## 3700 2227 5.85 93.93 -1.3 423  
## 5059 1808 5.75 88.95 -1.0 693  
## 5224 1528 6.36 85.97 0.1 298  
## 2820 2074 5.66 93.17 -0.8 656  
## 4490 1968 5.58 85.43 -1.5 292  
## 1368 2096 5.49 70.35 -17.5 170  
## 4507 2068 5.36 87.18 -1.4 259  
## 1326 1927 5.91 87.35 -0.4 215  
## 3890 1961 5.89 86.64 -1.0 85  
## 2372 1927 5.91 87.31 -0.4 31  
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## 2755 1970 5.59 88.93 -1.7 831  
## 3088 2145 5.77 89.94 -0.9 124  
## 5231 2172 5.82 91.84 -1.0 286  
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## 4617 2130 5.54 88.20 -1.4 85  
## 3831 2032 5.87 89.02 -1.0 148  
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## 4539 2193 5.54 89.43 -1.5 206  
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## 2995 1972 6.07 91.63 -0.1 244  
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## 772 1985 6.08 91.29 -0.7 61  
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## 5229 2174 5.33 90.49 -1.5 290  
## 4674 2170 5.37 88.70 -1.5 27  
## 2324 2107 5.47 87.63 -1.5 77  
## 5414 1737 4.17 69.20 -2.6 19  
## 2346 1934 5.85 88.41 -0.7 59  
## 5394 2110 5.68 89.31 -1.8 36  
## 5093 1780 5.45 85.39 -1.5 601  
## 4648 2192 5.03 87.36 -2.1 52  
## 4647 2014 5.87 87.45 -2.2 53  
## 5026 2035 4.94 85.44 -2.6 798  
## 4319 1963 5.53 89.74 -1.2 739  
## 3139 2137 5.58 89.24 -1.2 57  
## 3125 1937 5.15 83.85 -1.8 76  
## 2332 2063 5.46 87.91 -1.1 68  
## 2847 1970 5.49 88.93 -1.3 602  
## 4646 2246 5.76 92.94 -1.2 54  
## 4498 1891 5.86 89.50 -0.8 280  
## 1585 1707 5.15 77.90 -1.3 14  
## 3165 2160 4.76 82.71 -2.5 32  
## 3149 1910 5.85 87.91 -0.9 47  
## 2971 2064 5.64 89.65 -1.2 300  
## 863 2058 5.43 86.23 -1.5 7  
## 2060 2051 5.03 86.99 -2.1 540  
## 5238 2142 5.78 93.80 -1.1 277  
## 1979 1989 5.30 88.23 -1.8 725  
## 773 1976 5.85 89.81 -0.6 61  
## 2368 1579 4.35 68.10 -2.4 35  
## 714 1938 5.78 87.84 -0.8 114  
## 4207 2113 5.44 93.63 -2.1 1027  
## 3126 2044 5.21 83.65 -2.1 74  
## 3166 2183 5.25 86.84 -2.1 31  
## 3860 2051 5.61 88.64 -1.1 119  
## 2239 1984 5.87 90.44 -0.5 192  
## 4992 2103 5.26 93.67 -1.6 904  
## 3776 1775 6.00 87.82 -0.9 261  
## 3562 1785 5.54 87.24 -1.4 852  
## 5350 2137 5.33 88.89 -1.8 86  
## 2379 1749 4.57 73.22 -2.3 27  
## 2872 2133 5.04 88.90 -2.1 528  
## 3830 1996 5.51 86.74 -1.5 149  
## 4662 1888 5.48 85.58 -1.3 43  
## 3878 1881 5.60 86.20 -1.3 103  
## 1465 1965 5.81 82.84 -6.0 85  
## 1476 2247 5.96 95.45 -0.9 80  
## 3176 1642 4.91 71.48 -5.3 23  
## 677 1693 6.34 91.17 0.2 156  
## 5343 1921 5.64 88.56 -1.4 94  
## 3001 2014 6.03 94.01 -0.5 227  
## 2316 2078 6.16 60.48 -31.4 88  
## 3172 1631 5.19 76.24 -1.6 27  
## 2220 2075 5.33 90.26 -1.5 224  
## 5300 2072 5.48 88.92 -1.8 168  
## 4641 1910 5.80 88.02 -1.2 58  
## 802 1973 5.52 87.51 -1.1 42  
## 4237 2003 5.39 91.15 -1.8 953  
## 3177 1702 4.44 70.64 -2.8 23  
## 2415 1786 4.93 76.94 -2.1 7  
## 5313 1737 6.03 88.67 -1.0 152  
## 2234 2169 5.13 89.59 -1.8 197  
## 5241 1881 5.03 82.13 -1.9 271  
## 2377 2002 4.77 80.93 -2.0 28  
## 2369 2098 5.65 92.77 -0.9 33  
## 5287 1881 6.09 91.24 -0.4 187  
## 1577 1806 6.32 93.35 -0.1 19  
## 2909 2009 5.60 91.23 -1.2 440  
## 835 1925 5.95 90.90 -0.7 21  
## 764 1976 4.07 76.37 -2.7 66  
## 4629 1784 6.09 89.51 -0.4 68  
## 5409 1960 5.21 83.14 -2.2 23  
## 3813 2213 5.20 89.44 -2.1 176  
## 5393 1935 6.09 92.00 -1.1 36  
## 5415 2013 4.08 75.72 -2.6 19  
## 5341 2060 4.81 82.72 -2.7 96  
## 2216 1959 5.24 86.89 -1.7 229  
## 4580 2117 5.58 90.55 -1.6 133  
## 1389 2057 5.78 93.68 -1.0 145  
## 2361 1577 4.87 75.95 -1.9 42  
## 1310 1773 6.31 92.61 -0.2 234  
## 5320 2157 5.53 92.70 -1.5 140  
## 5141 1785 5.76 88.15 -1.1 497  
## 3181 1863 4.80 78.72 -2.3 20  
## 666 2061 5.43 89.53 -1.3 171  
## 2976 1975 5.77 91.24 -1.0 288  
## 5407 1892 4.90 80.63 -1.7 25  
## 3928 1818 4.89 78.14 -2.3 30  
## 1574 1706 6.70 93.73 0.9 20  
## 5421 1856 5.65 84.41 -3.3 15  
## 2411 1886 5.62 86.72 -1.4 10  
## 2270 2091 5.70 94.67 -0.8 144  
## 2310 2417 4.81 64.94 -24.4 95  
## 5410 1945 5.96 92.50 -0.5 22  
## 4574 1812 5.95 89.82 -0.6 147  
## 734 1829 6.51 94.74 0.4 88  
## 4602 1884 5.71 89.51 -0.7 105  
## 4695 1664 4.80 75.03 -2.2 6  
## 5214 1773 5.56 86.41 -1.8 334  
## 3199 1865 4.78 80.30 -2.0 9  
## 4670 2116 5.22 90.65 -1.9 36  
## 5403 1895 5.40 86.89 -1.4 26  
## 3092 2075 5.65 93.10 -1.2 117  
## 3950 1814 4.58 76.80 -2.9 12  
## 5344 1731 5.77 86.62 -1.0 92  
## 5325 1840 5.23 84.12 -1.7 124  
## 3073 1908 4.84 82.02 -2.2 136  
## 5262 1913 5.47 88.13 -1.6 234  
## 4668 1680 5.68 86.46 -1.0 39  
## 774 1776 5.88 87.93 -1.2 61  
## 5305 1900 5.29 85.73 -2.0 158  
## 4484 1747 5.90 89.04 -1.1 307  
## 2314 1936 5.68 90.62 -1.0 88  
## 3032 1810 5.09 84.18 -2.0 194  
## 5379 1679 6.03 88.61 -0.6 52  
## 3902 2082 5.26 89.81 -1.7 64  
## 4634 1831 5.45 86.44 -0.7 62  
## 3861 2193 5.40 93.14 -1.4 119  
## 2386 1818 4.22 74.33 -2.9 23  
## 5380 1980 5.27 86.72 -2.5 51  
## 3876 1821 5.24 84.04 -1.6 104  
## 4673 1747 4.98 79.14 -2.4 31  
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## 4555 1941 5.63 89.75 -1.7 179  
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## 5220 1740 5.68 87.83 -1.4 308  
## 2354 1906 5.87 91.15 -0.8 45  
## 2266 2080 5.14 89.59 -2.5 150  
## 3079 1984 5.35 88.74 -1.6 132  
## 3062 2116 5.04 89.22 -2.2 151  
## 2245 1859 5.74 90.64 -0.9 185  
## 3204 1959 4.94 84.83 -1.8 8  
## 5411 1923 5.10 85.13 -2.1 22  
## 2341 2057 6.28 45.89 -47.4 63  
## 4697 1976 4.50 80.90 -3.4 1  
## 5373 1936 4.55 81.42 -2.6 61  
## 2277 1996 5.67 92.32 -2.4 137  
## 5428 1808 4.20 77.25 -3.3 2  
## 4611 1981 4.90 87.06 -3.0 89  
## 2166 1848 4.88 84.25 -2.2 331  
## 3898 1856 5.30 88.01 -1.7 77  
## 5426 1492 5.41 81.59 -1.6 8  
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## 4666 1775 5.11 86.95 -2.3 41  
## 5340 1795 5.47 92.04 -1.4 101  
## 4463 1341 5.46 88.36 -3.0 364