Untitled

Arina

2024-11-04

trauma <- read.csv("C:/Users/Huawei/Desktop/biostat\_2024-2025/Специфика мед данных/trauma - Sheet1.csv")

#Задание 1 ##Описательная статистика для переменных

sum(is.na(trauma)) #поиск NA

## [1] 0

#Меняем знаки  
trauma$Height = gsub('"', '', trauma$Height)  
trauma$Weight = gsub(',', '.', trauma$Weight)  
trauma$Hb = gsub(',', '.', trauma$Hb)  
  
trauma

## id Name Sex Age Height Weight SBP DBP FOUR GSC  
## 1 1 Jecelle Oberly Female 24 68 176 102 78 10 8  
## 2 2 Halie Mccone Female 35 69.8 183.9 116 86 9 7  
## 3 3 Kole Cook Male 39 72.8 210.1 122 102 12 12  
## 4 4 Patricia Davis Female 20 70.5 195.4 120 100 11 9  
## 5 5 Grace Cress Female 63 66.8 169 112 84 9 7  
## 6 6 Joseph Benbrook Male 60 72.4 201.6 118 88 13 11  
## 7 7 Kelsie Coombs Female 63 69.6 216 122 100 10 9  
## 8 8 Aaron Eddy Male 26 74.7 194.1 114 94 11 10  
## 9 9 Victoria Hartman-Crowe Female 20 69.5 192.1 104 84 10 9  
## 10 10 Lindsay Locher Female 25 69.1 170.5 106 78 7 5  
## 11 11 Joshua Bullard Male 35 73.4 217 106 86 11 10  
## 12 12 Riley Beard Female 43 68.7 189.2 108 80 3 3  
## 13 13 Kyra Boyd Female 61 72.2 167.2 100 78 6 6  
## 14 14 Morgan Chacon Male 47 74.5 216.4 114 86 11 7  
## 15 15 Jackson Hall Male 40 71.9 217.9 114 82 13 11  
## 16 16 Maeve Waite Female 22 67.3 194.2 102 70 4 4  
## 17 17 Mackenzie Logan Female 61 66.8 139.5 126 98 13 12  
## 18 18 Dillon Rohweder Male 34 72.7 203.2 108 84 5 5  
## 19 19 Nicholas Devries Male 35 72 223.8 98 72 7 5  
## 20 20 Justin Hutchison Male 47 69.2 198.4 102 74 5 4  
## 21 21 Zhado Taylor Female 51 70.3 171.1 104 76 8 5  
## 22 22 Azamat Turk Male 27 75.8 198.7 106 80 9 8  
## 23 23 Courtney Miner Female 45 68.5 145.3 114 84 10 8  
## 24 24 Rachel Gardner Female 57 67.6 163.9 120 100 8 6  
## 25 25 Brian Conway Male 64 72.9 199.7 106 74 9 8  
## 26 26 Christopher Aziz Male 19 75.3 213.5 114 84 10 10  
## 27 27 Stephen Bobo Male 56 75 204.2 116 92 6 4  
## 28 28 Rachel Stewart Female 27 69.8 190.6 106 74 7 5  
## 29 29 Adam Wilkes Male 23 74.5 185.5 116 94 13 11  
## 30 30 Amberly Milliff Female 50 70.2 203.3 100 70 0 3  
## 31 31 Katelynn Dowse Female 31 69.9 198.9 106 80 12 10  
## 32 32 Heather Smith Female 56 70.1 190.3 116 96 12 11  
## 33 33 Kasey Kicera Male 48 75.5 198.4 110 88 13 10  
## 34 34 Jessica Hernandez Female 42 72.3 193.9 102 74 8 7  
## 35 35 Ryan Richie Male 19 72.4 191.7 118 92 12 11  
## 36 36 Madison Roseberry Female 31 72 167.8 110 86 10 9  
## 37 37 Dillon Yarbrough Male 20 73.8 167.6 108 78 7 5  
## 38 38 Zachary Stump Male 59 74.4 203.9 120 98 11 11  
## 39 39 Abigail Simonton Female 24 69.2 146.3 114 82 10 9  
## 40 40 Jordan Kendall Female 20 68.1 180.6 110 78 8 7  
## 41 41 Michael White Male 35 69.4 207.6 112 82 8 7  
## 42 42 Parker Drake Male 50 73.9 212.8 102 80 8 6  
## 43 43 Elijah Terrell Male 59 74.6 216.3 106 84 11 9  
## 44 44 Alexis Elson Female 29 65.5 190.2 106 80 9 7  
## 45 45 Kristofer Berger Male 36 75.6 188.1 106 78 5 3  
## 46 46 Amanda Goddard Female 47 67.8 194.4 112 84 10 9  
## 47 47 Sarah Sture Female 44 71.9 181.9 106 74 8 6  
## 48 48 Kirstye Schell Female 20 69.5 153 114 82 11 10  
## 49 49 Emily Lutkin Female 40 67.4 179.3 104 78 5 4  
## 50 50 Emily Brogan Female 62 69.3 154.2 104 72 3 3  
## 51 51 Zachary Dolquist Male 29 75 185.2 112 92 8 8  
## 52 52 Matthew Mawson Male 49 76.3 191.7 112 82 7 6  
## 53 53 Dillon Beck Male 60 74.2 192.2 122 90 11 10  
## 54 54 Jessica Hutson Female 20 64.9 194.9 106 74 3 3  
## 55 55 Jeffrey Mcilvride Male 24 71.9 200 104 76 6 4  
## 56 56 Nikki Gertie Female 23 67.3 166.9 120 98 9 9  
## 57 57 Mckenzie Stgermaine Female 37 69.9 171.5 110 78 7 7  
## 58 58 Brendan Chado Male 63 73.9 192.4 108 84 8 6  
## 59 59 Garrett Cline Male 35 73.3 203.8 104 78 5 4  
## 60 60 Dylan Hansen Male 51 72.8 209.1 110 90 7 6  
## 61 61 Linsey Mcginty Female 50 69.3 174.7 100 78 6 4  
## 62 62 Sara Olson Female 19 67.3 175.9 100 78 4 4  
## 63 63 Hannah Shimko Female 62 68.2 188.8 122 90 10 9  
## 64 64 Drae Boyle Male 43 72.6 188 100 70 7 6  
## 65 65 Alyssa Benton Female 50 66.2 178.6 114 94 7 6  
## 66 66 Cole Dupper Male 20 76.4 198.9 106 78 12 10  
## 67 67 Thomas Goddard Male 60 71.9 189.5 122 100 11 9  
## 68 68 Emily Peters Female 20 69.1 171.1 106 74 7 6  
## 69 69 Brooke Trayer Female 54 67.9 176.4 134 108 12 13  
## 70 70 Tristan Nelson Male 42 72.4 187.8 112 88 8 8  
## 71 71 Austin Wood Male 30 75 199.6 108 84 8 8  
## 72 72 John Patterson Male 41 75.2 181.9 114 88 9 7  
## 73 73 Eric Collupy Male 42 77 206.6 112 82 9 8  
## 74 74 Tanner Goodge Male 22 75.2 194 118 94 9 10  
## 75 75 Declan Fitzke Male 60 74.2 213 108 88 8 6  
## 76 76 Amie Dyer Female 44 74.2 187.4 118 98 10 8  
## 77 77 Alexander Kinzer Male 21 73.2 193.3 120 94 12 10  
## 78 78 Devin Witkin Male 49 72.5 195.8 110 90 8 8  
## 79 79 Austin Gorney Male 47 73.4 210.1 114 86 13 9  
## 80 80 Robert Bohnert Male 21 74.3 212 118 88 6 7  
## 81 81 Robert Barnes Male 38 75.7 208.2 120 96 15 12  
## 82 82 Jeffrey Casal Male 48 75.3 205.9 120 94 11 9  
## 83 83 Peter Skillman Male 55 74.3 174.3 114 94 8 7  
## 84 84 Madeline Otto Female 36 67.3 182.8 102 74 3 3  
## 85 85 Brittany O'Neil Female 54 71.3 159.7 112 92 8 6  
## 86 86 Kristopher Jacobs Male 58 76.3 202.1 102 76 8 5  
## 87 87 Linden Peyton Male 46 73.1 191.1 116 86 13 11  
## 88 88 Garrett Ceaglske Male 34 75.9 199.4 122 98 10 9  
## 89 89 Aaron Keselburg Male 61 75.4 183.3 104 72 4 4  
## 90 90 Riley Dann Male 52 76.6 198.5 122 90 10 10  
## 91 91 Sarah Stephenson Female 21 69.3 203.8 102 76 6 5  
## 92 92 Kyle Toler Male 23 72.2 228.4 94 70 4 5  
## 93 93 Dalton Angotti Male 56 76.1 163.7 114 88 12 12  
## 94 94 Staci Altenburg Female 54 67.5 156.2 112 88 11 9  
## 95 95 Morgan Gordon Female 21 70.1 159.7 104 80 8 8  
## 96 96 Kendra Powell Female 60 72.3 161.9 124 92 13 12  
## 97 97 Matthew Crozier Male 51 71.7 232.2 106 82 8 6  
## 98 98 Christopher Steele Male 60 77.6 216.2 100 78 4 5  
## 99 99 Mariah Sheppard Female 43 71.7 179.4 120 90 12 10  
## 100 100 Georgia Bice Female 34 67.9 195.7 108 80 7 7  
## 101 101 Abbie Erickson Female 56 68.5 214.9 106 74 9 8  
## 102 102 Kyle Gershon Male 54 73.1 210.6 104 76 6 5  
## 103 103 Jack Clayton Male 42 73.4 227.6 108 82 5 6  
## 104 104 Romeo Martenson Male 54 75.7 183.8 126 94 10 10  
## 105 105 Lindsey Korbe Female 21 67.2 164.8 104 80 6 4  
## 106 106 Erin Schaffer Female 39 68.6 197 106 78 7 6  
## 107 107 Rachel Ziegler Female 19 68.7 194.4 110 86 11 10  
## 108 108 Meredith Boekhoff Female 52 68.8 194.1 102 82 1 3  
## 109 109 John Wilson Jr Male 50 74.9 208.3 104 76 6 5  
## 110 110 Garrett Mutch Male 18 77.7 193.9 126 102 14 13  
## 111 111 Allison Kallberg Female 40 68.1 195.2 112 84 9 8  
## 112 112 Elexandra Kimberlain Female 45 67.4 208.7 108 86 4 3  
## 113 113 Ashley Maloney Female 31 70.6 199.6 110 88 9 7  
## 114 114 Wesley Read Male 21 75.3 180.3 102 74 9 7  
## 115 115 Travis Smith Male 35 75 208.1 102 76 7 6  
## 116 116 Collin Schad Male 42 75.7 201.2 104 84 7 5  
## 117 117 Jesse Schymanski Male 30 71.7 202.3 114 82 9 8  
## 118 118 Joseph Mckee Male 61 76.6 198.3 130 108 12 11  
## 119 119 Chrysanthe Norcross Female 38 69.9 162 108 84 6 5  
## 120 120 Bailey Brewer Female 50 70.9 186 118 94 11 10  
## 121 121 Darien Ament Male 26 73.3 221.3 94 70 3 3  
## 122 122 Brandon Larson Zody Male 29 70.8 225.5 122 92 15 13  
## 123 123 Michael Riss Male 19 73.5 208.2 106 80 11 9  
## 124 124 Paul Gray Male 33 72.7 190 104 74 7 6  
## 125 125 Shianne Dykstra Female 37 73.4 172.3 112 86 9 6  
## 126 126 Noah Trenker Male 23 73.7 191.8 110 80 5 5  
## 127 127 Gabrielle Blow Female 57 68.6 190.1 104 82 6 6  
## 128 128 Madalyn Tech Female 18 71.1 177.5 110 90 10 9  
## 129 129 Bradyn Carnahan Male 63 75.7 244.6 100 76 3 3  
## 130 130 Haley Vigil Female 55 70.3 177 124 104 11 10  
## 131 131 Megan Lewis Female 41 74.3 183.2 104 74 12 11  
## 132 132 Zoey Christensen Female 61 69.3 177.9 108 76 9 7  
## 133 133 Destini Ross Female 40 72.8 171.4 114 92 7 7  
## 134 134 Kelly Czaicki Female 42 69.5 193.7 114 94 11 10  
## 135 135 Teanna Fawley Female 56 66.1 173.1 102 74 8 6  
## 136 136 Coy Masciarelli Male 25 70 201 120 94 14 11  
## 137 137 Anna Carlson Female 42 70.3 176.8 118 92 11 9  
## 138 138 Paul Jenkins Male 38 72.5 158.6 112 86 15 12  
## 139 139 Claire Heinemann Female 33 69.1 190.8 104 74 7 5  
## 140 140 Sydney Moore Female 39 72.6 183.4 122 102 12 12  
## 141 141 Tait Watlington Male 20 75.2 188.2 110 84 12 9  
## 142 142 Ryan Lehnerz Male 29 73.9 221.4 114 94 11 10  
## 143 143 Cameron Deschepper Male 23 70.7 182.1 116 90 14 11  
## 144 144 Marija Martin Female 35 67.4 154.3 116 96 13 11  
## 145 145 Kara Durand Female 48 67.8 170.7 116 92 12 11  
## 146 146 Kaylie Collins Female 38 70.4 163.2 126 94 13 12  
## 147 147 Jakob Derush Male 21 75.5 212.8 110 88 7 5  
## 148 148 Mariah Kloberdanz Female 50 69 182.3 116 96 11 9  
## 149 149 Jared Apple Male 57 74.9 195.4 118 90 13 12  
## 150 150 Scott Smith Male 58 73.9 201.1 92 60 3 3  
## 151 151 Kayla Bril Female 22 69.1 166.7 112 82 13 11  
## 152 152 Dustin Swinnerton Male 19 75 203.7 110 88 6 5  
## 153 153 Abrielle Duffy Female 37 69.9 183.9 98 74 5 4  
## 154 154 Andrew Broussard Male 63 78.2 199.9 110 84 9 8  
## 155 155 Megan Ouellette Female 41 66.8 181 108 82 4 4  
## 156 156 Meredith Campbell Female 64 71.9 164.4 100 74 7 6  
## 157 157 Jonathan Bell Male 41 75.8 215 124 100 12 10  
## 158 158 Derek Arvidson Male 24 71.4 178.7 110 78 9 8  
## 159 159 Keaton Theodore Male 44 73.9 234.4 104 80 13 11  
## 160 160 Abby Pribble Female 29 67.7 205.4 104 84 10 7  
## 161 161 Elizabeth Connell Female 51 67.1 188.8 100 76 4 3  
## 162 162 Christopher Hooker Male 54 71.4 180.7 110 90 6 4  
## 163 163 Kendra Selby Female 39 68 187.4 118 98 9 9  
## 164 164 Daniel Lesser Male 40 73.6 176.1 114 86 8 8  
## 165 165 Cody Anderson Male 36 73.9 197 124 102 12 13  
## 166 166 Zane Tiedke Male 60 70.4 212.9 114 82 9 10  
## 167 167 Hunter Sizemore Male 44 75.4 213.6 102 72 6 5  
## 168 168 Wesley Harman Male 50 76 201.5 100 74 7 5  
## 169 169 Evan Warner Male 33 76.1 197.4 120 96 12 10  
## 170 170 Dylan Rangel Male 22 76 205 108 80 6 6  
## 171 171 Brecka Torrey Female 61 69.4 157.1 106 84 4 3  
## 172 172 Tyrell Beck Male 49 77.4 195.4 124 100 11 9  
## 173 173 Matthew Gribble Male 19 72.7 228.2 114 94 10 8  
## 174 174 Jonathan Brennan Male 23 72 174.9 106 82 7 6  
## 175 175 Taylor Cera Male 57 75.2 225.4 116 92 9 8  
## 176 176 David Packard Male 39 75.4 208.9 106 76 9 7  
## 177 177 Madeline Terraz Female 36 67.5 175.6 110 88 7 6  
## 178 178 Erik Pierpont Male 38 74.6 234.6 118 92 10 7  
## 179 179 Katherine Tecklenburg Female 49 69.6 180.4 106 86 7 7  
## 180 180 Breanna Haas Female 26 69.8 209.4 106 80 8 8  
## 181 181 Melanie Nuss Female 57 70.8 181.4 110 86 11 10  
## 182 182 Sarah Adams Female 60 70.9 189.3 116 84 8 7  
## 183 183 Jacob Dillsaver Male 55 69.6 192.4 106 78 4 4  
## 184 184 Zachary Suppes Male 41 78 187.1 118 92 8 8  
## 185 185 Anna Searby Female 30 69.9 151 104 84 4 3  
## 186 186 Chandra Wagner Female 49 67.9 171.7 112 90 7 8  
## 187 187 Darcy Starkebaum Female 61 66.8 191.9 108 84 7 6  
## 188 188 Ashley Pearson Female 63 70.8 164.5 122 96 16 13  
## 189 189 Christian Dore Male 20 75.2 183.6 110 86 10 9  
## 190 190 Brandin Wagner Male 36 76.7 194.4 114 82 10 9  
## 191 191 Jake Veatch Male 55 74.4 203.4 112 92 10 9  
## 192 192 Keli Emich Female 43 68.5 173.6 108 88 7 5  
## 193 193 Steven Brueggeman Male 32 79 219.2 96 64 1 3  
## 194 194 Ryan Johnson Male 37 70.4 205.4 116 94 14 13  
## 195 195 Dylan Deanda Male 19 75.3 200.5 118 96 7 8  
## 196 196 Jeremy Acker Male 57 75.3 184.5 104 82 6 5  
## 197 197 Tyler Hood Male 19 75.4 187 116 92 7 7  
## 198 198 Kellin Delbridge Male 48 75.6 207.9 120 94 12 10  
## 199 199 Courtney Robinson Female 45 68.4 176 110 86 11 10  
## 200 200 Jessie Binns Female 32 71.3 197.6 112 86 13 11  
## 201 201 Katie Craton Female 63 64.1 156.5 106 86 10 7  
## 202 202 Michael Martinez Male 56 72.9 206 98 76 9 6  
## 203 203 Kristin Knoebel Female 46 68.8 173.1 112 92 8 8  
## 204 204 Cole Koenig Male 24 74.8 223 100 76 4 4  
## 205 205 Tyler Hite Male 58 75.3 207.4 106 74 10 9  
## 206 206 Lucas Aberle Male 45 75.8 185.6 100 74 8 5  
## 207 207 Bailey Frost Female 55 66 161.4 116 86 8 7  
## 208 208 Michael Rogers Male 19 74.5 204.4 122 94 12 11  
## 209 209 Roy Kelvin Male 30 75.5 196.4 126 94 13 13  
## 210 210 Austin Klein Male 53 77.2 199.7 118 96 16 13  
## 211 211 Trevor Triplett Male 56 74.3 198.5 120 96 10 9  
## 212 212 Sydnee Sargent Female 42 72.2 190.8 106 78 9 8  
## 213 213 Andrew Tift Male 47 73.9 184.9 110 80 6 6  
## 214 214 Nicholas Chamberlain Male 40 74.4 253.1 110 88 9 8  
## 215 215 Arslan Brandner Male 45 74.8 205.4 126 104 14 12  
## 216 216 Kiana Hoffman Female 23 68 173 112 80 8 7  
## 217 217 Tanner Balagat Male 57 75.9 198.8 112 86 14 12  
## 218 218 Corey Bard Male 37 71.8 209.1 116 96 8 7  
## 219 219 Jarrett Hanson Male 54 74.5 210.5 112 88 10 9  
## 220 220 Shelbi Blackwell Female 62 67.9 154.4 120 88 16 14  
## 221 221 Jordan Henderson Male 30 73.4 170 112 80 9 9  
## 222 222 Koltyn Chitwood Male 56 76.8 199.7 96 76 5 4  
## 223 223 Christopher Baggerly Male 48 76.6 213.6 102 80 7 5  
## 224 224 Austen Breuer Female 55 72.2 183.5 98 70 6 5  
## 225 225 Dalton Homann Male 27 74 216.4 116 86 9 7  
## 226 226 Katelyn Newman Female 53 69.1 187 110 82 7 8  
## 227 227 Ryan Geers Male 52 71.4 207.2 106 84 10 11  
## 228 228 Nicholas Herder Male 53 73.7 226.2 112 80 14 12  
## 229 229 Noah Pell Male 33 78 185.1 104 80 6 5  
## 230 230 Jagger Devincenzo Male 21 73.7 189.1 90 66 6 4  
## 231 231 Zackery Bukowski Male 49 72.2 206.8 98 66 8 7  
## 232 232 Christopher Fulmer Male 20 74.6 204.8 108 88 12 11  
## 233 233 Alexander Kuhlman Male 48 77 168.2 118 94 10 9  
## 234 234 Jacob Spencer Male 32 71.3 209.1 112 92 9 8  
## 235 235 Elora Yantis Female 36 68.5 161.7 120 92 14 13  
## 236 236 Madeline Hoffpauir Female 60 69.9 162.6 106 86 8 9  
## 237 237 Samuel Joy Male 49 78.5 226.9 118 90 15 13  
## 238 238 Daisy Brandon Female 51 67.8 198.4 98 70 4 4  
## 239 239 Robert Grogan Male 51 77.5 189.8 116 88 10 10  
## 240 240 Devon Meadows Male 28 73.6 226 118 94 12 10  
## 241 241 Joseph Bhargava Male 37 72.4 193.1 116 88 12 11  
## 242 242 Jake Hoylman Male 44 72.2 216.4 102 72 5 3  
## 243 243 Devon Barnes Male 58 74.1 221.7 110 80 7 5  
## 244 244 Trigg Grubb Male 45 74.5 221 102 72 3 3  
## 245 245 Matthew Nielsen Male 60 73.9 219.8 102 78 8 6  
## 246 246 Brett Siert Male 34 76.6 196.7 116 94 7 6  
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## 248 248 Tyrell Cordova Male 51 74.3 219.8 108 80 10 8  
## 249 249 Austin Castine Male 28 73.3 199.9 108 80 8 7  
## 250 250 Kayli Kirschbaum Female 38 66.4 170.8 118 94 13 11  
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## 253 253 Joshua Ochiato Male 26 74.6 212.4 120 98 11 11  
## 254 254 Riley Brusak Male 52 77.2 223.2 112 80 11 9  
## 255 255 Leonard Ferraro Male 33 75.1 191.7 114 92 12 11  
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## 257 257 Trey Irvin Male 54 74.6 184.7 98 78 5 3  
## 258 258 Cole Emory Male 35 72.9 202.3 116 90 11 10  
## 259 259 Travis Dermody Male 31 75.1 188.3 104 82 5 3  
## 260 260 Lindsey Mcconnell Female 30 69.7 186.8 96 66 6 4  
## 261 261 Terri Hildebrandt Female 19 67.4 180.4 118 96 8 8  
## 262 262 Jared Manuppella Male 48 74.4 222.7 110 86 11 10  
## 263 263 Vaughn Miller Male 52 78.5 205.8 114 94 11 11  
## 264 264 Nicole Atwell Female 47 66.7 174.9 106 82 3 5  
## 265 265 Matthew Colligan Male 21 77.4 174.9 116 96 10 9  
## 266 266 Nicholas Mccall Male 42 74 194.2 102 76 4 4  
## 267 267 Kaylee Metcalf Female 22 72 172.2 120 96 16 14  
## 268 268 Jordan Rozman Male 30 72.8 218.2 96 72 6 5  
## 269 269 Katheryn Mullen Female 18 68.9 187.9 114 90 14 12  
## 270 270 Cherith Levalley Female 50 69.6 172.2 112 80 8 8  
## 271 271 Camron Edwards Male 55 74.3 204.4 116 86 11 10  
## 272 272 Jillian Mccary Female 24 70.3 183 110 78 7 7  
## 273 273 Jared Akbarzadeh Male 46 74.2 205.9 112 82 9 9  
## 274 274 Logan Flores Male 35 76.9 196.5 112 88 11 9  
## 275 275 Haley Dunning Female 49 69.3 198.8 118 88 14 11  
## 276 276 Dylan Ackerman Male 35 75.9 220.6 122 102 7 6  
## 277 277 Chad Brown Male 55 72.1 183.4 104 72 4 4  
## 278 278 Cooper Buhr Male 63 73.2 215.9 100 78 5 5  
## 279 279 Riley Long Male 40 76.7 189.8 118 94 9 9  
## 280 280 Trey Smith Male 22 75.5 204.3 120 88 10 9  
## 281 281 Tyler Crespin Male 24 74.2 216 112 92 8 6  
## 282 282 Kevin Roberts Male 59 74.3 208.4 108 80 9 7  
## 283 283 Jamie Maeby Male 51 76 200.9 100 68 8 6  
## 284 284 Tory Moler Female 58 68.6 182.4 114 94 8 8  
## 285 285 Jacob Gebhart Male 60 74.6 234.8 128 108 16 14  
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## 288 288 Andrew Phillips Male 51 76 196.2 120 96 16 14  
## 289 289 Edgar Niemer Male 31 76.2 228.6 100 80 5 5  
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## 291 291 Aspen Geoffroy Female 36 69 187 100 72 9 7  
## 292 292 Leah Simenson Female 33 68.2 200.6 116 84 13 10  
## 293 293 Mhamed Hoffmeister Male 23 71.7 191.8 104 82 8 5  
## 294 294 Ty O Neill Male 45 76 194.5 120 92 10 9  
## 295 295 Trevor Peterson Male 53 77 195.3 108 78 10 9  
## 296 296 Jered Sabatka Male 42 73.4 203.6 122 94 10 9  
## 297 297 Briana Marshall Female 31 68.5 144.8 110 82 7 8  
## 298 298 Kerowyn Davis Female 38 72.4 174.7 124 96 16 14  
## 299 299 Charles Newton Male 59 71.2 211.6 100 80 6 5  
## 300 300 Jonah Powell Male 60 76 205.7 102 72 8 8  
## 301 301 Zachery Tolman Male 42 73.9 206.3 108 78 10 10  
## 302 302 Alexander Strange Male 53 74.3 177.2 112 90 10 8  
## 303 303 Jason Rehbein Male 53 73.3 204.2 102 70 5 4  
## 304 304 Christian Funk Male 57 76.7 199.3 120 88 9 9  
## 305 305 Mariah Tarran Female 61 66.7 181.3 104 78 5 5  
## 306 306 Mekenzie Nelson Female 37 70.9 194.4 122 98 12 10  
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## 308 308 Griffin Hedberg Male 28 71.2 197.2 110 80 6 7  
## 309 309 Maxwell Kauvar Male 58 72.2 192 116 90 9 8  
## 310 310 Codey Erickson Male 61 75.7 197.3 102 76 5 4  
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## 312 312 Bethany Grey Female 48 67.6 179.2 106 80 7 6  
## 313 313 Jefferson White Male 21 73.6 194.7 104 82 7 5  
## 314 314 William Drazga Male 29 73.8 200.2 96 68 4 3  
## 315 315 Avi Davis Male 41 75.9 221.3 100 74 2 3  
## 316 316 Sierra Smith Female 42 67.8 167.2 126 100 12 12  
## 317 317 Joseph Stark Male 53 74.7 196.3 116 84 14 12  
## 318 318 Stephanie Beck Female 30 70.5 165.2 126 98 13 11  
## 319 319 Tarra Abeln Female 50 65.9 214.6 106 76 9 8  
## 320 320 Taylor Cathcart Female 44 67.6 173.9 104 84 9 8  
## 321 321 Alan Thorvaldson Male 38 76.2 214.6 104 72 10 8  
## 322 322 Joao Shadden Male 58 73.7 201.6 110 90 8 7  
## 323 323 Shane Krieger Male 23 69.4 198.4 112 86 10 9  
## 324 324 Cullen Williams Male 33 72.8 195.6 112 82 11 8  
## 325 325 Alex Lemon Male 52 76.1 188.9 120 96 12 10  
## 326 326 Sydney Stark Female 43 68.1 201.1 124 98 12 11  
## 327 327 Chandler Fick-Cimino Male 26 73.7 210.4 106 80 8 7  
## 328 328 Clara Kobach Female 49 68.7 181.5 120 96 10 8  
## 329 329 Lindsay Bohlen Female 23 70.4 164.6 108 78 9 7  
## 330 330 Elea Mcguirk Female 31 68 173.7 100 76 5 3  
## 331 331 Alexandra Walden Female 51 70 195.3 100 80 6 6  
## 332 332 Cameron Pommier Male 20 75.6 186.1 106 74 8 8  
## 333 333 Hunter Eucker Male 23 72.5 192.4 112 82 10 9  
## 334 334 Colin Bates Male 37 74.4 212.7 118 98 13 11  
## 335 335 Clara Livingston Female 45 67.9 186.7 104 82 11 7  
## 336 336 Daniel Acosta Male 27 75.3 192 112 92 5 6  
## 337 337 Richard Petrose Male 41 71.5 225.8 120 92 11 9  
## 338 338 Joseph Pate Rinaldi Male 56 77.6 183.1 96 66 6 5  
## 339 339 Michaela Kinnison Female 22 71.7 202.2 114 84 12 11  
## 340 340 Mikalan Doyle Male 40 72.8 213.2 110 80 6 6  
## 341 341 Sebastian Boies Male 59 73.2 169.5 112 82 5 6  
## 342 342 Colin Bland Male 38 72.7 205.8 112 88 9 8  
## 343 343 Leanna Keeler Female 31 68.7 193 104 74 7 5  
## 344 344 Lance Schutt Male 21 73.5 189.1 116 94 12 10  
## 345 345 Kenneth Kellogg Male 59 74.7 200.8 108 80 6 5  
## 346 346 Nathan Keilman Male 25 70.7 176.6 116 94 11 10  
## 347 347 Amanda Brown Female 33 69.3 167.4 134 104 12 11  
## 348 348 Bernard Schwaigert Male 49 74.5 203.1 106 86 8 7  
## 349 349 Kimberly Hobbs Female 31 65.8 185.1 108 86 10 8  
## 350 350 Brianna Hill Female 38 69.6 179.9 112 90 7 7  
## 351 351 Mark Hart Male 40 74.6 189.4 116 92 6 8  
## 352 352 Bryce Gillett Male 29 74 209.9 102 74 2 3  
## 353 353 Patrick Mcgraw Male 35 74.5 220.9 108 80 6 6  
## 354 354 Timothy Ballard Male 21 75.3 192 114 84 10 10  
## 355 355 Crystal Cochran Female 35 69.7 181.8 120 98 9 9  
## 356 356 Jack Harmon Male 63 73.6 193 104 82 6 5  
## 357 357 Michele Fuller Female 27 71.3 179.8 110 78 9 8  
## 358 358 Brianna Jones Female 58 68.9 183.4 106 76 2 3  
## 359 359 Robert Bolender Male 23 74.2 199.5 124 102 11 12  
## 360 360 Carl George Male 27 76.4 195.7 106 80 6 6  
## 361 361 Caleb Buckley Male 52 76.5 193.9 110 82 9 8  
## 362 362 Glenna Campbell Female 30 67.6 181.5 118 88 10 8  
## 363 363 Troy Plante Male 28 72.5 198 112 84 6 5  
## 364 364 Estrella Giles Female 45 67.6 172.8 124 92 13 12  
## 365 365 Tori Carlson Female 22 66.6 186.7 110 78 10 9  
## 366 366 Carlos Watkins Male 40 70.9 207.1 104 72 10 8  
## 367 367 Jennifer Woodall Female 32 69.6 183.6 120 96 11 10  
## 368 368 Karlie Legatski Female 59 68.7 164.5 116 90 12 10  
## 369 369 Devin Johnson Male 28 75.8 207 122 98 11 10  
## 370 370 Mitchell Smith Male 42 74.5 207.4 116 84 16 14  
## 371 371 Alexander Gordiyenko Male 19 75.3 196.8 118 94 7 7  
## 372 372 Zachary Foerster Male 42 73.5 209.3 118 96 14 12  
## 373 373 Sydney Bohus Female 36 67.1 200 104 84 5 5  
## 374 374 Tanner Shue Male 18 76.1 205.9 110 78 7 7  
## 375 375 Brooke Santucci Female 44 70.5 192.5 104 78 8 6  
## 376 376 Alyxandra Kendig Female 39 65.5 200.2 104 84 6 4  
## 377 377 Samuel Allen Male 46 76.3 225.9 108 76 9 8  
## 378 378 David Fabiano Male 20 71 193.8 120 98 11 12  
## 379 379 Taylor Pate Male 48 74.4 194.9 104 72 7 7  
## 380 380 Sophia Mcdaniel Female 33 68.2 176.1 110 90 10 9  
## 381 381 Jared Deluna Male 25 74.2 217.5 120 90 11 10  
## 382 382 Zachary Yonts Male 28 76.7 209.7 124 100 9 9  
## 383 383 Sebastian Nolan Male 35 72 215.4 110 86 7 8  
## 384 384 Justin Bocek Male 49 74 205.5 104 72 6 6  
## 385 385 Josiah Lott Male 25 79.6 196.7 112 88 6 6  
## 386 386 Alexandria Rossman Female 37 66 159.2 116 94 11 11  
## 387 387 Charles Paulek Male 30 73.2 175.4 124 104 14 13  
## 388 388 Emily Vogel Female 34 68.9 211.2 100 78 7 7  
## 389 389 Kyle Dustin Male 23 74.9 201.1 118 90 13 10  
## 390 390 Kyle Johnson Male 31 73.4 209.4 116 94 6 5  
## 391 391 Caitlin Kayrevich Female 24 68.5 191.4 108 86 7 6  
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## 393 393 Kymberli Alfano Female 52 68.6 190.5 114 92 8 9  
## 394 394 Austin Daugherty Male 20 75 201.4 118 90 10 9  
## 395 395 Erika Daise Female 36 69.7 192.1 116 84 12 11  
## 396 396 Danny Roman Male 57 75.3 206.2 112 84 12 10  
## 397 397 Kayllie Kocol Female 36 70 171.6 118 90 11 10  
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## 405 405 Katelyn Margalit Female 54 66.8 180.6 108 76 12 10  
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## 409 409 Jackson Courtney Male 60 75.6 209 118 86 10 10  
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## 411 411 Mitchell Howard Male 34 76.3 164.9 100 72 6 4  
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## 426 426 Spencer Sullivan Male 58 76 222.2 126 102 10 9  
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## 444 444 Samantha Pummel Female 29 68.5 188.8 112 90 13 10  
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## 446 446 Donnie Grocke Male 32 73.2 208.9 112 80 11 8  
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## 472 472 Kasandra Husa Male 48 77 218.1 122 92 12 12  
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## 474 474 Cameron Suleski Female 52 69.3 192.5 124 102 12 13  
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## 490 490 Bryce Diering Male 23 76.3 211.8 106 74 10 8  
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## 561 561 Mackenzie Baer Female 56 67.4 179.4 106 86 9 9  
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## 566 566 Geoffrey Cisar Male 41 75.9 241.1 110 80 7 5  
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## 599 599 Alexander Kimzey Male 62 71.1 190.2 114 88 7 5  
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## 671 671 Luke Gallegos Male 23 76.7 199.3 108 76 8 6  
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## 673 673 Lucas Murray Male 57 75.2 225.2 98 68 6 4  
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## 733 733 Jasmine Price Female 56 67.7 159.1 112 82 10 10  
## 734 734 Rebecca Falbo Female 32 66.8 176 114 84 7 6  
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## 752 752 Tanner Davison Male 26 77.9 199 108 76 10 9  
## 753 753 Austin Airozo Male 42 72.3 188.3 108 82 6 5  
## 754 754 Travis Weiss Male 41 73.5 202.7 108 78 8 6  
## 755 755 Blake Martin Male 60 76.1 181 102 80 7 6  
## 756 756 Michael Friedman Male 39 74 236.6 106 74 10 10  
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## 771 771 Marcus Compton Male 38 76 224 104 72 7 5  
## 772 772 Jordan Smiley Male 19 74.6 193.8 100 78 6 7  
## 773 773 Garrett Mulder Male 59 70.7 205.1 104 74 5 4  
## 774 774 Cameron Calvano Male 24 74.3 220.4 108 84 6 5  
## 775 775 Michelle Smith Female 64 69 187.4 124 96 12 12  
## 776 776 Dylan Brungardt Male 21 72.8 208.9 114 88 10 9  
## 777 777 Sydnee Brown Female 56 66.6 171.2 106 82 6 6  
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## 779 779 Kassandra Markham Female 36 67.6 166.2 104 82 1 3  
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## 784 784 Beau Robinson Male 23 76.8 199.5 128 102 14 14  
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## 805 805 Clark Helmick Male 58 74.5 192.9 116 94 9 8  
## 806 806 Joseph Thornton Male 56 76 232.1 118 92 11 9  
## 807 807 Matthew Mace Male 26 73.7 197.9 112 90 13 11  
## 808 808 John Gardner Male 56 74.8 192.7 110 84 8 7  
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## 869 869 Mitchel Mcquaid Male 19 78.1 171.4 100 68 7 5  
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## 936 936 Jack Showalter Male 22 74.1 184 110 84 6 5  
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## 215 15.1 0  
## 216 11.4 0  
## 217 15 0  
## 218 13.7 1  
## 219 13.8 0  
## 220 13.7 0  
## 221 13.6 0  
## 222 12.8 1  
## 223 12.8 1  
## 224 10.1 1  
## 225 13.8 0  
## 226 11.6 1  
## 227 14 0  
## 228 14.5 0  
## 229 12.9 0  
## 230 13 1  
## 231 14.7 1  
## 232 14.8 0  
## 233 13.4 0  
## 234 14.9 0  
## 235 13.9 0  
## 236 12 1  
## 237 15.7 0  
## 238 10.8 1  
## 239 14.9 0  
## 240 14.3 0  
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## 242 13.4 1  
## 243 13.4 1  
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## 245 13.2 1  
## 246 13.6 1  
## 247 14.6 0  
## 248 14.1 0  
## 249 13.6 1  
## 250 13 0  
## 251 13.8 0  
## 252 15 0  
## 253 14 0  
## 254 14.4 0  
## 255 13.8 0  
## 256 11.6 1  
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## 258 13.7 0  
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## 263 14.5 0  
## 264 10.2 1  
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## 266 12.1 1  
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## 272 11.3 1  
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## 275 12.2 0  
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## 284 11.1 0  
## 285 14.1 0  
## 286 13.8 0  
## 287 14.7 0  
## 288 15.7 0  
## 289 0 1  
## 290 13.8 0  
## 291 11.4 0  
## 292 13.4 0  
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## 296 13.2 0  
## 297 12 1  
## 298 12.3 0  
## 299 13.3 1  
## 300 13.8 1  
## 301 15 0  
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## 305 12.3 1  
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## 317 14.5 0  
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## 320 12 1  
## 321 13.4 0  
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## 323 13.9 0  
## 324 13.7 0  
## 325 14 0  
## 326 12.3 0  
## 327 14.1 1  
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## 329 0 1  
## 330 10.8 1  
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## 333 13.9 0  
## 334 15.2 0  
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## 345 12.1 1  
## 346 14.4 0  
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## 348 12.5 1  
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## 360 12.6 1  
## 361 14 1  
## 362 11.5 0  
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## 372 15.9 0  
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## 416 14.5 0  
## 417 13.3 1  
## 418 11.4 0  
## 419 13.5 0  
## 420 14 1  
## 421 14.6 0  
## 422 13.2 1  
## 423 12 0  
## 424 12 0  
## 425 12.4 1  
## 426 14.5 0  
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## 428 12.3 1  
## 429 11.5 0  
## 430 13.2 0  
## 431 14.4 0  
## 432 13.7 0  
## 433 14 0  
## 434 13.3 1  
## 435 12.6 0  
## 436 14 0  
## 437 13.4 0  
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## 442 11.8 0  
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## 444 12.9 0  
## 445 13.1 1  
## 446 15 0  
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## 448 11.4 0  
## 449 12 0  
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## 453 10.7 1  
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## 456 14.2 0  
## 457 13.9 1  
## 458 12.7 0  
## 459 12.5 0  
## 460 12.7 0  
## 461 13.7 0  
## 462 12.6 1  
## 463 11 1  
## 464 14.1 0  
## 465 15 0  
## 466 9.4 0  
## 467 13.1 1  
## 468 13.5 0  
## 469 16.2 0  
## 470 11.4 1  
## 471 14.6 0  
## 472 14.5 0  
## 473 12.2 1  
## 474 11.6 0  
## 475 14.8 0  
## 476 12.4 0  
## 477 13.9 0  
## 478 9.4 1  
## 479 15.9 0  
## 480 12.7 0  
## 481 15 0  
## 482 14.4 0  
## 483 10.6 0  
## 484 12.4 1  
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## 488 13 0  
## 489 13.2 0  
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## 491 11 1  
## 492 15.8 0  
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## 497 10.7 1  
## 498 13 1  
## 499 12.8 1  
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## 512 11.3 0  
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## 540 15.6 0  
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## 543 15 0  
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## 546 12.2 1  
## 547 10 1  
## 548 15.1 0  
## 549 13.6 0  
## 550 13.6 1  
## 551 11.2 1  
## 552 13.3 0  
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## 555 14.8 0  
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## 557 11.7 0  
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## 562 14.5 0  
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## 586 0 0  
## 587 12.6 0  
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## 589 13.6 1  
## 590 12.9 0  
## 591 13.7 0  
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## 593 13.6 0  
## 594 11.9 0  
## 595 11.4 0  
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## 600 12.9 1  
## 601 14.6 0  
## 602 12.9 1  
## 603 0 1  
## 604 14.2 0  
## 605 13.4 0  
## 606 11.8 1  
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## 608 14.4 0  
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## 611 12.6 1  
## 612 15.1 0  
## 613 11.1 0  
## 614 13.3 0  
## 615 11.3 0  
## 616 0 0  
## 617 15 0  
## 618 13.5 0  
## 619 12.8 0  
## 620 13.9 0  
## 621 14.5 0  
## 622 13.5 1  
## 623 15.4 0  
## 624 12.3 0  
## 625 13.6 1  
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## 627 12.6 1  
## 628 14.3 0  
## 629 11.8 1  
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## 632 14.1 0  
## 633 12.9 1  
## 634 12.8 1  
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## 636 12.2 0  
## 637 14.4 1  
## 638 14.1 0  
## 639 13 0  
## 640 11.2 1  
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## 642 14 0  
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## 644 13.2 0  
## 645 14 0  
## 646 12.1 0  
## 647 13.5 1  
## 648 12.9 1  
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## 650 12.2 0  
## 651 14 0  
## 652 12.2 0  
## 653 11.3 1  
## 654 12.3 1  
## 655 13.9 0  
## 656 13.7 0  
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## 659 14.5 0  
## 660 14.3 1  
## 661 11.6 0  
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## 665 14.4 0  
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## 667 13.8 0  
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## 669 11.1 1  
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## 675 13 1  
## 676 14.1 1  
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## 678 13 0  
## 679 14.5 0  
## 680 14.3 0  
## 681 13.1 1  
## 682 11.9 1  
## 683 12.1 0  
## 684 11.9 0  
## 685 12.4 1  
## 686 10.9 1  
## 687 14.2 0  
## 688 15.2 0  
## 689 12 0  
## 690 13.4 1  
## 691 12.5 0  
## 692 14.5 1  
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## 694 11.7 0  
## 695 15.1 0  
## 696 11.4 0  
## 697 13.2 1  
## 698 12.4 0  
## 699 10.9 0  
## 700 13.5 0  
## 701 9.7 1  
## 702 13.6 0  
## 703 14.6 0  
## 704 10.2 1  
## 705 13.2 0  
## 706 11.1 1  
## 707 12.5 1  
## 708 14.1 0  
## 709 13.9 0  
## 710 13.4 0  
## 711 11.7 0  
## 712 11.4 1  
## 713 14.5 0  
## 714 11.9 0  
## 715 13.3 0  
## 716 12 0  
## 717 14.7 0  
## 718 14 0  
## 719 14 0  
## 720 11.7 0  
## 721 13.6 1  
## 722 12.4 0  
## 723 13.8 0  
## 724 13.5 1  
## 725 12.6 1  
## 726 11.8 0  
## 727 15.8 0  
## 728 15.4 0  
## 729 14.2 0  
## 730 12.3 1  
## 731 0 1  
## 732 11.5 1  
## 733 11.8 1  
## 734 10.8 1  
## 735 14.6 0  
## 736 13.5 0  
## 737 13.2 1  
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## 741 11.4 1  
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## 750 14.2 0  
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## 752 14.2 0  
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## 761 11.3 1  
## 762 12.1 0  
## 763 14.7 0  
## 764 14.2 0  
## 765 13.1 0  
## 766 11.3 0  
## 767 12.3 0  
## 768 13.1 1  
## 769 14.5 0  
## 770 13.4 0  
## 771 13.2 0  
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## 773 11.9 1  
## 774 13.4 1  
## 775 12 0  
## 776 14.2 0  
## 777 12.2 1  
## 778 10.9 1  
## 779 10.3 1  
## 780 10.7 1  
## 781 11.8 0  
## 782 11.4 1  
## 783 13.9 0  
## 784 14.3 0  
## 785 10 1  
## 786 12.9 0  
## 787 12.7 1  
## 788 11.9 0  
## 789 13.8 0  
## 790 13.3 0  
## 791 0 0  
## 792 13.1 0  
## 793 11.8 1  
## 794 13.2 0  
## 795 14.9 0  
## 796 15.1 0  
## 797 13.5 0  
## 798 13.5 0  
## 799 10.3 1  
## 800 13.6 0  
## 801 9.7 1  
## 802 11.5 0  
## 803 13 1  
## 804 13.4 1  
## 805 14.3 0  
## 806 14.3 0  
## 807 15 0  
## 808 13.2 0  
## 809 13.4 1  
## 810 13.3 0  
## 811 13.3 1  
## 812 11.7 0  
## 813 13.3 0  
## 814 12.6 0  
## 815 12.8 0  
## 816 12.5 0  
## 817 12.6 0  
## 818 13.5 1  
## 819 12.9 1  
## 820 14 0  
## 821 13.5 0  
## 822 0 0  
## 823 12.9 0  
## 824 12.7 1  
## 825 14.6 0  
## 826 9.8 1  
## 827 13.8 1  
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## 829 14.2 0  
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## 840 13.2 1  
## 841 11.3 1  
## 842 12.6 0  
## 843 13.9 1  
## 844 14 1  
## 845 15.2 0  
## 846 13.6 1  
## 847 12.9 0  
## 848 13.9 0  
## 849 12.7 0  
## 850 15.1 0  
## 851 14.2 0  
## 852 11 0  
## 853 15 0  
## 854 12.7 1  
## 855 12.9 0  
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## 859 12.5 1  
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## 879 12.1 1  
## 880 12.6 1  
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## 882 11.3 0  
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## 884 10.9 1  
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## 888 15.1 0  
## 889 9.9 1  
## 890 11.4 0  
## 891 13.8 0  
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## 893 12.3 0  
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## 899 12.8 0  
## 900 11.6 0  
## 901 14.7 0  
## 902 12.7 1  
## 903 14.5 0  
## 904 14.5 0  
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## 908 15.4 0  
## 909 13.6 1  
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## 911 14.3 0  
## 912 13.3 1  
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## 918 12.8 0  
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## 924 14 1  
## 925 11.8 0  
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## 950 13 1  
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## 998 15.1 0  
## 999 13.4 1  
## 1000 13.1 1  
## 1001 10.7 1  
## 1002 14.9 0  
## 1003 10.9 1  
## 1004 13.8 0  
## 1005 13.7 0  
## 1006 15.4 0  
## 1007 14.3 1  
## 1008 12.2 1  
## 1009 13.5 0  
## 1010 11.9 1  
## 1011 14.9 0  
## 1012 13.9 0  
## 1013 12.7 0  
## 1014 14.3 0  
## 1015 13.7 0  
## 1016 11 1  
## 1017 14.5 0  
## 1018 12.8 1  
## 1019 11.9 0  
## 1020 13.8 0  
## 1021 13 0  
## 1022 12.3 1  
## 1023 13.3 1  
## 1024 13.5 0

##Изменение типа данных

trauma\_1 <- trauma %>%  
 mutate(id = as.factor(id),  
 FOUR = as.factor(FOUR),  
 GSC = as.factor(GSC),  
 Death = as.factor(Death),  
 Age = as.numeric(Age),  
 SBP = as.numeric(SBP),  
 DBP = as.numeric(DBP),  
 Height = as.numeric(Height),  
 Hb = as.numeric(Hb),  
 Weight = as.numeric(Weight))

trauma\_1 %>%  
 summary()

## id Name Sex Age   
## 1 : 1 Length:1024 Length:1024 Min. :18.00   
## 2 : 1 Class :character Class :character 1st Qu.:29.00   
## 3 : 1 Mode :character Mode :character Median :41.00   
## 4 : 1 Mean :40.94   
## 5 : 1 3rd Qu.:53.00   
## 6 : 1 Max. :64.00   
## (Other):1018   
## Height Weight SBP DBP FOUR   
## Min. :63.80 Min. :133.3 Min. : 90.0 Min. : 58.00 8 :131   
## 1st Qu.:69.70 1st Qu.:181.7 1st Qu.:106.0 1st Qu.: 78.00 10 :129   
## Median :72.80 Median :193.9 Median :110.0 Median : 84.00 9 :122   
## Mean :72.42 Mean :193.5 Mean :110.8 Mean : 84.78 7 :114   
## 3rd Qu.:75.10 3rd Qu.:205.4 3rd Qu.:116.0 3rd Qu.: 90.00 11 :105   
## Max. :79.90 Max. :253.1 Max. :134.0 Max. :110.00 6 : 91   
## (Other):332   
## GSC Hb Death   
## 8 :150 Min. : 0.0 0:615   
## 7 :135 1st Qu.:12.0 1:409   
## 9 :128 Median :13.1   
## 6 :107 Mean :12.8   
## 10 :105 3rd Qu.:14.0   
## 5 : 93 Max. :16.2   
## (Other):306

##Все нули в Hb заменяем на NA (пропущенные значения)

trauma\_2 <- trauma\_1 %>%  
 mutate(Hb = na\_if(Hb, 0))

##Пациенты с низким гемоглобином

low\_Hb\_Male <- trauma\_2 %>%  
 filter(Hb < 13.5 & Sex == "Male", na.rm = TRUE) %>%  
 nrow()  
  
low\_Hb\_Female <- trauma\_2 %>%  
 filter(Hb < 12 & Sex == "Female", na.rm = TRUE) %>%  
 nrow()  
  
  
low\_Hb\_Female + low\_Hb\_Male #количество пациентов с низким гемоглобином

## [1] 458

(low\_Hb\_Female + low\_Hb\_Male) / (nrow(trauma\_2) - sum(is.na(trauma\_2$Hb))) \* 100 #процент пациентов с низким гемоглобином без пропущенных значений гемоглобина

## [1] 45.43651

(low\_Hb\_Female + low\_Hb\_Male) / nrow(trauma\_2) \* 100 #процент пациентов с низким гемоглобином

## [1] 44.72656

##Меняем размерность переменных (для роста и веса)

trauma\_3 <- trauma\_2 %>%  
 mutate(across(Height, function(x) x\*2.54) %>% round(1),  
 across(Weight, function(x) x/2.2) %>% round(1))  
  
trauma\_3

## id Name Sex Age Height Weight SBP DBP FOUR GSC  
## 1 1 Jecelle Oberly Female 24 172.7 80.0 102 78 10 8  
## 2 2 Halie Mccone Female 35 177.3 83.6 116 86 9 7  
## 3 3 Kole Cook Male 39 184.9 95.5 122 102 12 12  
## 4 4 Patricia Davis Female 20 179.1 88.8 120 100 11 9  
## 5 5 Grace Cress Female 63 169.7 76.8 112 84 9 7  
## 6 6 Joseph Benbrook Male 60 183.9 91.6 118 88 13 11  
## 7 7 Kelsie Coombs Female 63 176.8 98.2 122 100 10 9  
## 8 8 Aaron Eddy Male 26 189.7 88.2 114 94 11 10  
## 9 9 Victoria Hartman-Crowe Female 20 176.5 87.3 104 84 10 9  
## 10 10 Lindsay Locher Female 25 175.5 77.5 106 78 7 5  
## 11 11 Joshua Bullard Male 35 186.4 98.6 106 86 11 10  
## 12 12 Riley Beard Female 43 174.5 86.0 108 80 3 3  
## 13 13 Kyra Boyd Female 61 183.4 76.0 100 78 6 6  
## 14 14 Morgan Chacon Male 47 189.2 98.4 114 86 11 7  
## 15 15 Jackson Hall Male 40 182.6 99.0 114 82 13 11  
## 16 16 Maeve Waite Female 22 170.9 88.3 102 70 4 4  
## 17 17 Mackenzie Logan Female 61 169.7 63.4 126 98 13 12  
## 18 18 Dillon Rohweder Male 34 184.7 92.4 108 84 5 5  
## 19 19 Nicholas Devries Male 35 182.9 101.7 98 72 7 5  
## 20 20 Justin Hutchison Male 47 175.8 90.2 102 74 5 4  
## 21 21 Zhado Taylor Female 51 178.6 77.8 104 76 8 5  
## 22 22 Azamat Turk Male 27 192.5 90.3 106 80 9 8  
## 23 23 Courtney Miner Female 45 174.0 66.0 114 84 10 8  
## 24 24 Rachel Gardner Female 57 171.7 74.5 120 100 8 6  
## 25 25 Brian Conway Male 64 185.2 90.8 106 74 9 8  
## 26 26 Christopher Aziz Male 19 191.3 97.0 114 84 10 10  
## 27 27 Stephen Bobo Male 56 190.5 92.8 116 92 6 4  
## 28 28 Rachel Stewart Female 27 177.3 86.6 106 74 7 5  
## 29 29 Adam Wilkes Male 23 189.2 84.3 116 94 13 11  
## 30 30 Amberly Milliff Female 50 178.3 92.4 100 70 0 3  
## 31 31 Katelynn Dowse Female 31 177.5 90.4 106 80 12 10  
## 32 32 Heather Smith Female 56 178.1 86.5 116 96 12 11  
## 33 33 Kasey Kicera Male 48 191.8 90.2 110 88 13 10  
## 34 34 Jessica Hernandez Female 42 183.6 88.1 102 74 8 7  
## 35 35 Ryan Richie Male 19 183.9 87.1 118 92 12 11  
## 36 36 Madison Roseberry Female 31 182.9 76.3 110 86 10 9  
## 37 37 Dillon Yarbrough Male 20 187.5 76.2 108 78 7 5  
## 38 38 Zachary Stump Male 59 189.0 92.7 120 98 11 11  
## 39 39 Abigail Simonton Female 24 175.8 66.5 114 82 10 9  
## 40 40 Jordan Kendall Female 20 173.0 82.1 110 78 8 7  
## 41 41 Michael White Male 35 176.3 94.4 112 82 8 7  
## 42 42 Parker Drake Male 50 187.7 96.7 102 80 8 6  
## 43 43 Elijah Terrell Male 59 189.5 98.3 106 84 11 9  
## 44 44 Alexis Elson Female 29 166.4 86.5 106 80 9 7  
## 45 45 Kristofer Berger Male 36 192.0 85.5 106 78 5 3  
## 46 46 Amanda Goddard Female 47 172.2 88.4 112 84 10 9  
## 47 47 Sarah Sture Female 44 182.6 82.7 106 74 8 6  
## 48 48 Kirstye Schell Female 20 176.5 69.5 114 82 11 10  
## 49 49 Emily Lutkin Female 40 171.2 81.5 104 78 5 4  
## 50 50 Emily Brogan Female 62 176.0 70.1 104 72 3 3  
## 51 51 Zachary Dolquist Male 29 190.5 84.2 112 92 8 8  
## 52 52 Matthew Mawson Male 49 193.8 87.1 112 82 7 6  
## 53 53 Dillon Beck Male 60 188.5 87.4 122 90 11 10  
## 54 54 Jessica Hutson Female 20 164.8 88.6 106 74 3 3  
## 55 55 Jeffrey Mcilvride Male 24 182.6 90.9 104 76 6 4  
## 56 56 Nikki Gertie Female 23 170.9 75.9 120 98 9 9  
## 57 57 Mckenzie Stgermaine Female 37 177.5 78.0 110 78 7 7  
## 58 58 Brendan Chado Male 63 187.7 87.5 108 84 8 6  
## 59 59 Garrett Cline Male 35 186.2 92.6 104 78 5 4  
## 60 60 Dylan Hansen Male 51 184.9 95.0 110 90 7 6  
## 61 61 Linsey Mcginty Female 50 176.0 79.4 100 78 6 4  
## 62 62 Sara Olson Female 19 170.9 80.0 100 78 4 4  
## 63 63 Hannah Shimko Female 62 173.2 85.8 122 90 10 9  
## 64 64 Drae Boyle Male 43 184.4 85.5 100 70 7 6  
## 65 65 Alyssa Benton Female 50 168.1 81.2 114 94 7 6  
## 66 66 Cole Dupper Male 20 194.1 90.4 106 78 12 10  
## 67 67 Thomas Goddard Male 60 182.6 86.1 122 100 11 9  
## 68 68 Emily Peters Female 20 175.5 77.8 106 74 7 6  
## 69 69 Brooke Trayer Female 54 172.5 80.2 134 108 12 13  
## 70 70 Tristan Nelson Male 42 183.9 85.4 112 88 8 8  
## 71 71 Austin Wood Male 30 190.5 90.7 108 84 8 8  
## 72 72 John Patterson Male 41 191.0 82.7 114 88 9 7  
## 73 73 Eric Collupy Male 42 195.6 93.9 112 82 9 8  
## 74 74 Tanner Goodge Male 22 191.0 88.2 118 94 9 10  
## 75 75 Declan Fitzke Male 60 188.5 96.8 108 88 8 6  
## 76 76 Amie Dyer Female 44 188.5 85.2 118 98 10 8  
## 77 77 Alexander Kinzer Male 21 185.9 87.9 120 94 12 10  
## 78 78 Devin Witkin Male 49 184.2 89.0 110 90 8 8  
## 79 79 Austin Gorney Male 47 186.4 95.5 114 86 13 9  
## 80 80 Robert Bohnert Male 21 188.7 96.4 118 88 6 7  
## 81 81 Robert Barnes Male 38 192.3 94.6 120 96 15 12  
## 82 82 Jeffrey Casal Male 48 191.3 93.6 120 94 11 9  
## 83 83 Peter Skillman Male 55 188.7 79.2 114 94 8 7  
## 84 84 Madeline Otto Female 36 170.9 83.1 102 74 3 3  
## 85 85 Brittany O'Neil Female 54 181.1 72.6 112 92 8 6  
## 86 86 Kristopher Jacobs Male 58 193.8 91.9 102 76 8 5  
## 87 87 Linden Peyton Male 46 185.7 86.9 116 86 13 11  
## 88 88 Garrett Ceaglske Male 34 192.8 90.6 122 98 10 9  
## 89 89 Aaron Keselburg Male 61 191.5 83.3 104 72 4 4  
## 90 90 Riley Dann Male 52 194.6 90.2 122 90 10 10  
## 91 91 Sarah Stephenson Female 21 176.0 92.6 102 76 6 5  
## 92 92 Kyle Toler Male 23 183.4 103.8 94 70 4 5  
## 93 93 Dalton Angotti Male 56 193.3 74.4 114 88 12 12  
## 94 94 Staci Altenburg Female 54 171.4 71.0 112 88 11 9  
## 95 95 Morgan Gordon Female 21 178.1 72.6 104 80 8 8  
## 96 96 Kendra Powell Female 60 183.6 73.6 124 92 13 12  
## 97 97 Matthew Crozier Male 51 182.1 105.5 106 82 8 6  
## 98 98 Christopher Steele Male 60 197.1 98.3 100 78 4 5  
## 99 99 Mariah Sheppard Female 43 182.1 81.5 120 90 12 10  
## 100 100 Georgia Bice Female 34 172.5 89.0 108 80 7 7  
## 101 101 Abbie Erickson Female 56 174.0 97.7 106 74 9 8  
## 102 102 Kyle Gershon Male 54 185.7 95.7 104 76 6 5  
## 103 103 Jack Clayton Male 42 186.4 103.5 108 82 5 6  
## 104 104 Romeo Martenson Male 54 192.3 83.5 126 94 10 10  
## 105 105 Lindsey Korbe Female 21 170.7 74.9 104 80 6 4  
## 106 106 Erin Schaffer Female 39 174.2 89.5 106 78 7 6  
## 107 107 Rachel Ziegler Female 19 174.5 88.4 110 86 11 10  
## 108 108 Meredith Boekhoff Female 52 174.8 88.2 102 82 1 3  
## 109 109 John Wilson Jr Male 50 190.2 94.7 104 76 6 5  
## 110 110 Garrett Mutch Male 18 197.4 88.1 126 102 14 13  
## 111 111 Allison Kallberg Female 40 173.0 88.7 112 84 9 8  
## 112 112 Elexandra Kimberlain Female 45 171.2 94.9 108 86 4 3  
## 113 113 Ashley Maloney Female 31 179.3 90.7 110 88 9 7  
## 114 114 Wesley Read Male 21 191.3 82.0 102 74 9 7  
## 115 115 Travis Smith Male 35 190.5 94.6 102 76 7 6  
## 116 116 Collin Schad Male 42 192.3 91.5 104 84 7 5  
## 117 117 Jesse Schymanski Male 30 182.1 92.0 114 82 9 8  
## 118 118 Joseph Mckee Male 61 194.6 90.1 130 108 12 11  
## 119 119 Chrysanthe Norcross Female 38 177.5 73.6 108 84 6 5  
## 120 120 Bailey Brewer Female 50 180.1 84.5 118 94 11 10  
## 121 121 Darien Ament Male 26 186.2 100.6 94 70 3 3  
## 122 122 Brandon Larson Zody Male 29 179.8 102.5 122 92 15 13  
## 123 123 Michael Riss Male 19 186.7 94.6 106 80 11 9  
## 124 124 Paul Gray Male 33 184.7 86.4 104 74 7 6  
## 125 125 Shianne Dykstra Female 37 186.4 78.3 112 86 9 6  
## 126 126 Noah Trenker Male 23 187.2 87.2 110 80 5 5  
## 127 127 Gabrielle Blow Female 57 174.2 86.4 104 82 6 6  
## 128 128 Madalyn Tech Female 18 180.6 80.7 110 90 10 9  
## 129 129 Bradyn Carnahan Male 63 192.3 111.2 100 76 3 3  
## 130 130 Haley Vigil Female 55 178.6 80.5 124 104 11 10  
## 131 131 Megan Lewis Female 41 188.7 83.3 104 74 12 11  
## 132 132 Zoey Christensen Female 61 176.0 80.9 108 76 9 7  
## 133 133 Destini Ross Female 40 184.9 77.9 114 92 7 7  
## 134 134 Kelly Czaicki Female 42 176.5 88.0 114 94 11 10  
## 135 135 Teanna Fawley Female 56 167.9 78.7 102 74 8 6  
## 136 136 Coy Masciarelli Male 25 177.8 91.4 120 94 14 11  
## 137 137 Anna Carlson Female 42 178.6 80.4 118 92 11 9  
## 138 138 Paul Jenkins Male 38 184.2 72.1 112 86 15 12  
## 139 139 Claire Heinemann Female 33 175.5 86.7 104 74 7 5  
## 140 140 Sydney Moore Female 39 184.4 83.4 122 102 12 12  
## 141 141 Tait Watlington Male 20 191.0 85.5 110 84 12 9  
## 142 142 Ryan Lehnerz Male 29 187.7 100.6 114 94 11 10  
## 143 143 Cameron Deschepper Male 23 179.6 82.8 116 90 14 11  
## 144 144 Marija Martin Female 35 171.2 70.1 116 96 13 11  
## 145 145 Kara Durand Female 48 172.2 77.6 116 92 12 11  
## 146 146 Kaylie Collins Female 38 178.8 74.2 126 94 13 12  
## 147 147 Jakob Derush Male 21 191.8 96.7 110 88 7 5  
## 148 148 Mariah Kloberdanz Female 50 175.3 82.9 116 96 11 9  
## 149 149 Jared Apple Male 57 190.2 88.8 118 90 13 12  
## 150 150 Scott Smith Male 58 187.7 91.4 92 60 3 3  
## 151 151 Kayla Bril Female 22 175.5 75.8 112 82 13 11  
## 152 152 Dustin Swinnerton Male 19 190.5 92.6 110 88 6 5  
## 153 153 Abrielle Duffy Female 37 177.5 83.6 98 74 5 4  
## 154 154 Andrew Broussard Male 63 198.6 90.9 110 84 9 8  
## 155 155 Megan Ouellette Female 41 169.7 82.3 108 82 4 4  
## 156 156 Meredith Campbell Female 64 182.6 74.7 100 74 7 6  
## 157 157 Jonathan Bell Male 41 192.5 97.7 124 100 12 10  
## 158 158 Derek Arvidson Male 24 181.4 81.2 110 78 9 8  
## 159 159 Keaton Theodore Male 44 187.7 106.5 104 80 13 11  
## 160 160 Abby Pribble Female 29 172.0 93.4 104 84 10 7  
## 161 161 Elizabeth Connell Female 51 170.4 85.8 100 76 4 3  
## 162 162 Christopher Hooker Male 54 181.4 82.1 110 90 6 4  
## 163 163 Kendra Selby Female 39 172.7 85.2 118 98 9 9  
## 164 164 Daniel Lesser Male 40 186.9 80.0 114 86 8 8  
## 165 165 Cody Anderson Male 36 187.7 89.5 124 102 12 13  
## 166 166 Zane Tiedke Male 60 178.8 96.8 114 82 9 10  
## 167 167 Hunter Sizemore Male 44 191.5 97.1 102 72 6 5  
## 168 168 Wesley Harman Male 50 193.0 91.6 100 74 7 5  
## 169 169 Evan Warner Male 33 193.3 89.7 120 96 12 10  
## 170 170 Dylan Rangel Male 22 193.0 93.2 108 80 6 6  
## 171 171 Brecka Torrey Female 61 176.3 71.4 106 84 4 3  
## 172 172 Tyrell Beck Male 49 196.6 88.8 124 100 11 9  
## 173 173 Matthew Gribble Male 19 184.7 103.7 114 94 10 8  
## 174 174 Jonathan Brennan Male 23 182.9 79.5 106 82 7 6  
## 175 175 Taylor Cera Male 57 191.0 102.5 116 92 9 8  
## 176 176 David Packard Male 39 191.5 95.0 106 76 9 7  
## 177 177 Madeline Terraz Female 36 171.4 79.8 110 88 7 6  
## 178 178 Erik Pierpont Male 38 189.5 106.6 118 92 10 7  
## 179 179 Katherine Tecklenburg Female 49 176.8 82.0 106 86 7 7  
## 180 180 Breanna Haas Female 26 177.3 95.2 106 80 8 8  
## 181 181 Melanie Nuss Female 57 179.8 82.5 110 86 11 10  
## 182 182 Sarah Adams Female 60 180.1 86.0 116 84 8 7  
## 183 183 Jacob Dillsaver Male 55 176.8 87.5 106 78 4 4  
## 184 184 Zachary Suppes Male 41 198.1 85.0 118 92 8 8  
## 185 185 Anna Searby Female 30 177.5 68.6 104 84 4 3  
## 186 186 Chandra Wagner Female 49 172.5 78.0 112 90 7 8  
## 187 187 Darcy Starkebaum Female 61 169.7 87.2 108 84 7 6  
## 188 188 Ashley Pearson Female 63 179.8 74.8 122 96 16 13  
## 189 189 Christian Dore Male 20 191.0 83.5 110 86 10 9  
## 190 190 Brandin Wagner Male 36 194.8 88.4 114 82 10 9  
## 191 191 Jake Veatch Male 55 189.0 92.5 112 92 10 9  
## 192 192 Keli Emich Female 43 174.0 78.9 108 88 7 5  
## 193 193 Steven Brueggeman Male 32 200.7 99.6 96 64 1 3  
## 194 194 Ryan Johnson Male 37 178.8 93.4 116 94 14 13  
## 195 195 Dylan Deanda Male 19 191.3 91.1 118 96 7 8  
## 196 196 Jeremy Acker Male 57 191.3 83.9 104 82 6 5  
## 197 197 Tyler Hood Male 19 191.5 85.0 116 92 7 7  
## 198 198 Kellin Delbridge Male 48 192.0 94.5 120 94 12 10  
## 199 199 Courtney Robinson Female 45 173.7 80.0 110 86 11 10  
## 200 200 Jessie Binns Female 32 181.1 89.8 112 86 13 11  
## 201 201 Katie Craton Female 63 162.8 71.1 106 86 10 7  
## 202 202 Michael Martinez Male 56 185.2 93.6 98 76 9 6  
## 203 203 Kristin Knoebel Female 46 174.8 78.7 112 92 8 8  
## 204 204 Cole Koenig Male 24 190.0 101.4 100 76 4 4  
## 205 205 Tyler Hite Male 58 191.3 94.3 106 74 10 9  
## 206 206 Lucas Aberle Male 45 192.5 84.4 100 74 8 5  
## 207 207 Bailey Frost Female 55 167.6 73.4 116 86 8 7  
## 208 208 Michael Rogers Male 19 189.2 92.9 122 94 12 11  
## 209 209 Roy Kelvin Male 30 191.8 89.3 126 94 13 13  
## 210 210 Austin Klein Male 53 196.1 90.8 118 96 16 13  
## 211 211 Trevor Triplett Male 56 188.7 90.2 120 96 10 9  
## 212 212 Sydnee Sargent Female 42 183.4 86.7 106 78 9 8  
## 213 213 Andrew Tift Male 47 187.7 84.0 110 80 6 6  
## 214 214 Nicholas Chamberlain Male 40 189.0 115.0 110 88 9 8  
## 215 215 Arslan Brandner Male 45 190.0 93.4 126 104 14 12  
## 216 216 Kiana Hoffman Female 23 172.7 78.6 112 80 8 7  
## 217 217 Tanner Balagat Male 57 192.8 90.4 112 86 14 12  
## 218 218 Corey Bard Male 37 182.4 95.0 116 96 8 7  
## 219 219 Jarrett Hanson Male 54 189.2 95.7 112 88 10 9  
## 220 220 Shelbi Blackwell Female 62 172.5 70.2 120 88 16 14  
## 221 221 Jordan Henderson Male 30 186.4 77.3 112 80 9 9  
## 222 222 Koltyn Chitwood Male 56 195.1 90.8 96 76 5 4  
## 223 223 Christopher Baggerly Male 48 194.6 97.1 102 80 7 5  
## 224 224 Austen Breuer Female 55 183.4 83.4 98 70 6 5  
## 225 225 Dalton Homann Male 27 188.0 98.4 116 86 9 7  
## 226 226 Katelyn Newman Female 53 175.5 85.0 110 82 7 8  
## 227 227 Ryan Geers Male 52 181.4 94.2 106 84 10 11  
## 228 228 Nicholas Herder Male 53 187.2 102.8 112 80 14 12  
## 229 229 Noah Pell Male 33 198.1 84.1 104 80 6 5  
## 230 230 Jagger Devincenzo Male 21 187.2 86.0 90 66 6 4  
## 231 231 Zackery Bukowski Male 49 183.4 94.0 98 66 8 7  
## 232 232 Christopher Fulmer Male 20 189.5 93.1 108 88 12 11  
## 233 233 Alexander Kuhlman Male 48 195.6 76.5 118 94 10 9  
## 234 234 Jacob Spencer Male 32 181.1 95.0 112 92 9 8  
## 235 235 Elora Yantis Female 36 174.0 73.5 120 92 14 13  
## 236 236 Madeline Hoffpauir Female 60 177.5 73.9 106 86 8 9  
## 237 237 Samuel Joy Male 49 199.4 103.1 118 90 15 13  
## 238 238 Daisy Brandon Female 51 172.2 90.2 98 70 4 4  
## 239 239 Robert Grogan Male 51 196.8 86.3 116 88 10 10  
## 240 240 Devon Meadows Male 28 186.9 102.7 118 94 12 10  
## 241 241 Joseph Bhargava Male 37 183.9 87.8 116 88 12 11  
## 242 242 Jake Hoylman Male 44 183.4 98.4 102 72 5 3  
## 243 243 Devon Barnes Male 58 188.2 100.8 110 80 7 5  
## 244 244 Trigg Grubb Male 45 189.2 100.5 102 72 3 3  
## 245 245 Matthew Nielsen Male 60 187.7 99.9 102 78 8 6  
## 246 246 Brett Siert Male 34 194.6 89.4 116 94 7 6  
## 247 247 Brett Shaufler Male 30 190.2 87.6 118 98 12 11  
## 248 248 Tyrell Cordova Male 51 188.7 99.9 108 80 10 8  
## 249 249 Austin Castine Male 28 186.2 90.9 108 80 8 7  
## 250 250 Kayli Kirschbaum Female 38 168.7 77.6 118 94 13 11  
## 251 251 Jackson Bement Male 50 179.3 84.4 110 88 9 8  
## 252 252 Noah Belfiore Male 49 190.2 100.2 114 90 13 11  
## 253 253 Joshua Ochiato Male 26 189.5 96.5 120 98 11 11  
## 254 254 Riley Brusak Male 52 196.1 101.5 112 80 11 9  
## 255 255 Leonard Ferraro Male 33 190.8 87.1 114 92 12 11  
## 256 256 Katelyn Downs Female 34 179.3 84.0 98 70 7 6  
## 257 257 Trey Irvin Male 54 189.5 84.0 98 78 5 3  
## 258 258 Cole Emory Male 35 185.2 92.0 116 90 11 10  
## 259 259 Travis Dermody Male 31 190.8 85.6 104 82 5 3  
## 260 260 Lindsey Mcconnell Female 30 177.0 84.9 96 66 6 4  
## 261 261 Terri Hildebrandt Female 19 171.2 82.0 118 96 8 8  
## 262 262 Jared Manuppella Male 48 189.0 101.2 110 86 11 10  
## 263 263 Vaughn Miller Male 52 199.4 93.5 114 94 11 11  
## 264 264 Nicole Atwell Female 47 169.4 79.5 106 82 3 5  
## 265 265 Matthew Colligan Male 21 196.6 79.5 116 96 10 9  
## 266 266 Nicholas Mccall Male 42 188.0 88.3 102 76 4 4  
## 267 267 Kaylee Metcalf Female 22 182.9 78.3 120 96 16 14  
## 268 268 Jordan Rozman Male 30 184.9 99.2 96 72 6 5  
## 269 269 Katheryn Mullen Female 18 175.0 85.4 114 90 14 12  
## 270 270 Cherith Levalley Female 50 176.8 78.3 112 80 8 8  
## 271 271 Camron Edwards Male 55 188.7 92.9 116 86 11 10  
## 272 272 Jillian Mccary Female 24 178.6 83.2 110 78 7 7  
## 273 273 Jared Akbarzadeh Male 46 188.5 93.6 112 82 9 9  
## 274 274 Logan Flores Male 35 195.3 89.3 112 88 11 9  
## 275 275 Haley Dunning Female 49 176.0 90.4 118 88 14 11  
## 276 276 Dylan Ackerman Male 35 192.8 100.3 122 102 7 6  
## 277 277 Chad Brown Male 55 183.1 83.4 104 72 4 4  
## 278 278 Cooper Buhr Male 63 185.9 98.1 100 78 5 5  
## 279 279 Riley Long Male 40 194.8 86.3 118 94 9 9  
## 280 280 Trey Smith Male 22 191.8 92.9 120 88 10 9  
## 281 281 Tyler Crespin Male 24 188.5 98.2 112 92 8 6  
## 282 282 Kevin Roberts Male 59 188.7 94.7 108 80 9 7  
## 283 283 Jamie Maeby Male 51 193.0 91.3 100 68 8 6  
## 284 284 Tory Moler Female 58 174.2 82.9 114 94 8 8  
## 285 285 Jacob Gebhart Male 60 189.5 106.7 128 108 16 14  
## 286 286 Bret Haefele Male 40 180.8 101.1 108 86 9 9  
## 287 287 Connor Ross Male 21 198.1 91.5 112 80 13 11  
## 288 288 Andrew Phillips Male 51 193.0 89.2 120 96 16 14  
## 289 289 Edgar Niemer Male 31 193.5 103.9 100 80 5 5  
## 290 290 Austin Samour Male 33 179.6 92.0 110 84 9 8  
## 291 291 Aspen Geoffroy Female 36 175.3 85.0 100 72 9 7  
## 292 292 Leah Simenson Female 33 173.2 91.2 116 84 13 10  
## 293 293 Mhamed Hoffmeister Male 23 182.1 87.2 104 82 8 5  
## 294 294 Ty O Neill Male 45 193.0 88.4 120 92 10 9  
## 295 295 Trevor Peterson Male 53 195.6 88.8 108 78 10 9  
## 296 296 Jered Sabatka Male 42 186.4 92.5 122 94 10 9  
## 297 297 Briana Marshall Female 31 174.0 65.8 110 82 7 8  
## 298 298 Kerowyn Davis Female 38 183.9 79.4 124 96 16 14  
## 299 299 Charles Newton Male 59 180.8 96.2 100 80 6 5  
## 300 300 Jonah Powell Male 60 193.0 93.5 102 72 8 8  
## 301 301 Zachery Tolman Male 42 187.7 93.8 108 78 10 10  
## 302 302 Alexander Strange Male 53 188.7 80.5 112 90 10 8  
## 303 303 Jason Rehbein Male 53 186.2 92.8 102 70 5 4  
## 304 304 Christian Funk Male 57 194.8 90.6 120 88 9 9  
## 305 305 Mariah Tarran Female 61 169.4 82.4 104 78 5 5  
## 306 306 Mekenzie Nelson Female 37 180.1 88.4 122 98 12 10  
## 307 307 Stephen King Male 46 196.3 101.2 112 92 6 4  
## 308 308 Griffin Hedberg Male 28 180.8 89.6 110 80 6 7  
## 309 309 Maxwell Kauvar Male 58 183.4 87.3 116 90 9 8  
## 310 310 Codey Erickson Male 61 192.3 89.7 102 76 5 4  
## 311 311 Nicholas Sidor Male 45 184.4 96.6 104 76 10 8  
## 312 312 Bethany Grey Female 48 171.7 81.5 106 80 7 6  
## 313 313 Jefferson White Male 21 186.9 88.5 104 82 7 5  
## 314 314 William Drazga Male 29 187.5 91.0 96 68 4 3  
## 315 315 Avi Davis Male 41 192.8 100.6 100 74 2 3  
## 316 316 Sierra Smith Female 42 172.2 76.0 126 100 12 12  
## 317 317 Joseph Stark Male 53 189.7 89.2 116 84 14 12  
## 318 318 Stephanie Beck Female 30 179.1 75.1 126 98 13 11  
## 319 319 Tarra Abeln Female 50 167.4 97.5 106 76 9 8  
## 320 320 Taylor Cathcart Female 44 171.7 79.0 104 84 9 8  
## 321 321 Alan Thorvaldson Male 38 193.5 97.5 104 72 10 8  
## 322 322 Joao Shadden Male 58 187.2 91.6 110 90 8 7  
## 323 323 Shane Krieger Male 23 176.3 90.2 112 86 10 9  
## 324 324 Cullen Williams Male 33 184.9 88.9 112 82 11 8  
## 325 325 Alex Lemon Male 52 193.3 85.9 120 96 12 10  
## 326 326 Sydney Stark Female 43 173.0 91.4 124 98 12 11  
## 327 327 Chandler Fick-Cimino Male 26 187.2 95.6 106 80 8 7  
## 328 328 Clara Kobach Female 49 174.5 82.5 120 96 10 8  
## 329 329 Lindsay Bohlen Female 23 178.8 74.8 108 78 9 7  
## 330 330 Elea Mcguirk Female 31 172.7 79.0 100 76 5 3  
## 331 331 Alexandra Walden Female 51 177.8 88.8 100 80 6 6  
## 332 332 Cameron Pommier Male 20 192.0 84.6 106 74 8 8  
## 333 333 Hunter Eucker Male 23 184.2 87.5 112 82 10 9  
## 334 334 Colin Bates Male 37 189.0 96.7 118 98 13 11  
## 335 335 Clara Livingston Female 45 172.5 84.9 104 82 11 7  
## 336 336 Daniel Acosta Male 27 191.3 87.3 112 92 5 6  
## 337 337 Richard Petrose Male 41 181.6 102.6 120 92 11 9  
## 338 338 Joseph Pate Rinaldi Male 56 197.1 83.2 96 66 6 5  
## 339 339 Michaela Kinnison Female 22 182.1 91.9 114 84 12 11  
## 340 340 Mikalan Doyle Male 40 184.9 96.9 110 80 6 6  
## 341 341 Sebastian Boies Male 59 185.9 77.0 112 82 5 6  
## 342 342 Colin Bland Male 38 184.7 93.5 112 88 9 8  
## 343 343 Leanna Keeler Female 31 174.5 87.7 104 74 7 5  
## 344 344 Lance Schutt Male 21 186.7 86.0 116 94 12 10  
## 345 345 Kenneth Kellogg Male 59 189.7 91.3 108 80 6 5  
## 346 346 Nathan Keilman Male 25 179.6 80.3 116 94 11 10  
## 347 347 Amanda Brown Female 33 176.0 76.1 134 104 12 11  
## 348 348 Bernard Schwaigert Male 49 189.2 92.3 106 86 8 7  
## 349 349 Kimberly Hobbs Female 31 167.1 84.1 108 86 10 8  
## 350 350 Brianna Hill Female 38 176.8 81.8 112 90 7 7  
## 351 351 Mark Hart Male 40 189.5 86.1 116 92 6 8  
## 352 352 Bryce Gillett Male 29 188.0 95.4 102 74 2 3  
## 353 353 Patrick Mcgraw Male 35 189.2 100.4 108 80 6 6  
## 354 354 Timothy Ballard Male 21 191.3 87.3 114 84 10 10  
## 355 355 Crystal Cochran Female 35 177.0 82.6 120 98 9 9  
## 356 356 Jack Harmon Male 63 186.9 87.7 104 82 6 5  
## 357 357 Michele Fuller Female 27 181.1 81.7 110 78 9 8  
## 358 358 Brianna Jones Female 58 175.0 83.4 106 76 2 3  
## 359 359 Robert Bolender Male 23 188.5 90.7 124 102 11 12  
## 360 360 Carl George Male 27 194.1 89.0 106 80 6 6  
## 361 361 Caleb Buckley Male 52 194.3 88.1 110 82 9 8  
## 362 362 Glenna Campbell Female 30 171.7 82.5 118 88 10 8  
## 363 363 Troy Plante Male 28 184.2 90.0 112 84 6 5  
## 364 364 Estrella Giles Female 45 171.7 78.5 124 92 13 12  
## 365 365 Tori Carlson Female 22 169.2 84.9 110 78 10 9  
## 366 366 Carlos Watkins Male 40 180.1 94.1 104 72 10 8  
## 367 367 Jennifer Woodall Female 32 176.8 83.5 120 96 11 10  
## 368 368 Karlie Legatski Female 59 174.5 74.8 116 90 12 10  
## 369 369 Devin Johnson Male 28 192.5 94.1 122 98 11 10  
## 370 370 Mitchell Smith Male 42 189.2 94.3 116 84 16 14  
## 371 371 Alexander Gordiyenko Male 19 191.3 89.5 118 94 7 7  
## 372 372 Zachary Foerster Male 42 186.7 95.1 118 96 14 12  
## 373 373 Sydney Bohus Female 36 170.4 90.9 104 84 5 5  
## 374 374 Tanner Shue Male 18 193.3 93.6 110 78 7 7  
## 375 375 Brooke Santucci Female 44 179.1 87.5 104 78 8 6  
## 376 376 Alyxandra Kendig Female 39 166.4 91.0 104 84 6 4  
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## 379 379 Taylor Pate Male 48 189.0 88.6 104 72 7 7  
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## 383 383 Sebastian Nolan Male 35 182.9 97.9 110 86 7 8  
## 384 384 Justin Bocek Male 49 188.0 93.4 104 72 6 6  
## 385 385 Josiah Lott Male 25 202.2 89.4 112 88 6 6  
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## 396 396 Danny Roman Male 57 191.3 93.7 112 84 12 10  
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## 731 731 Bryan Cavanagh Male 60 184.7 86.9 102 70 7 6  
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## 734 734 Rebecca Falbo Female 32 169.7 80.0 114 84 7 6  
## 735 735 Noah Hale Male 27 194.8 92.8 104 82 10 9  
## 736 736 Cramer Lanphear Male 42 186.4 84.5 108 76 8 7  
## 737 737 Oliver Tompkins Male 26 197.4 87.7 114 86 9 8  
## 738 738 Madison Yokeley Female 28 171.7 85.6 106 84 12 10  
## 739 739 Laura Oligschlaeger Female 62 178.6 86.0 108 84 11 8  
## 740 740 Erin George Female 27 180.8 73.9 118 96 9 8  
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## 743 743 Anthony Tate Male 28 189.7 101.0 110 86 9 8  
## 744 744 Chantalle Haworth Female 35 180.1 87.4 112 88 6 6  
## 745 745 Katherine Shaffer Female 22 172.7 71.9 118 88 12 10  
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## 757 757 Derek Smith Male 38 191.8 74.4 106 76 10 9  
## 758 758 Ryan Orgeron Male 22 196.1 106.4 120 94 11 9  
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## 874 874 Ellen Chavez Female 26 174.8 88.4 116 88 8 7  
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## 876 876 Sophie Campa Female 19 181.1 60.6 116 96 11 8  
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## 879 879 Alexandra Abdulsalam Female 62 180.3 75.9 112 92 7 8  
## 880 880 David Baltzer Male 46 196.3 80.3 100 74 6 6  
## 881 881 Arlene Currie Female 24 168.4 84.8 122 92 14 13  
## 882 882 Leah Bergner Female 61 178.3 97.9 106 80 11 9  
## 883 883 Amanda Landree Female 24 173.5 85.6 108 88 10 9  
## 884 884 Tessa Shea Female 44 175.0 95.5 110 80 7 6  
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## 887 887 Corbin Spitz Male 50 189.7 96.7 106 78 8 7  
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## 889 889 Esther Pigg Female 55 179.6 73.2 110 86 6 7  
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## 899 899 Diana Rhodes Female 44 167.6 84.4 118 86 13 11  
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## 902 902 Jared Dorrell Male 59 192.8 90.2 114 88 8 8  
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## 905 905 Benjamin Bruce Male 48 188.2 89.3 118 86 8 7  
## 906 906 Claire Orr Female 25 177.3 90.6 114 94 8 8  
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## 914 914 Mary Mills Female 47 173.2 90.7 106 86 7 6  
## 915 915 Chynna Key Female 60 175.5 76.7 108 88 6 3  
## 916 916 Jordan Harley Female 45 171.7 71.9 110 88 9 8  
## 917 917 Mikayla Smith Female 25 168.1 82.3 126 100 13 12  
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## 921 921 Aunna Bohnen Female 51 168.4 78.7 110 84 7 5  
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## 1008 12.2 1  
## 1009 13.5 0  
## 1010 11.9 1  
## 1011 14.9 0  
## 1012 13.9 0  
## 1013 12.7 0  
## 1014 14.3 0  
## 1015 13.7 0  
## 1016 11.0 1  
## 1017 14.5 0  
## 1018 12.8 1  
## 1019 11.9 0  
## 1020 13.8 0  
## 1021 13.0 0  
## 1022 12.3 1  
## 1023 13.3 1  
## 1024 13.5 0

##Описательная статистика

trauma\_3 %>%   
 select(Age,  
 Death,  
 Height,  
 Weight,  
 SBP,  
 DBP,  
 Hb) %>%   
 tbl\_summary(by = Death) %>%  
 add\_p()

| **Characteristic** | **0** N = 615*1* | **1** N = 409*1* | **p-value***2* |
| --- | --- | --- | --- |
| Age | 40 (29, 52) | 43 (30, 53) | 0.14 |
| Height | 185 (178, 191) | 185 (176, 190) | 0.3 |
| Weight | 88 (83, 94) | 88 (82, 93) | 0.3 |
| SBP | 114 (108, 118) | 106 (102, 110) | <0.001 |
| DBP | 88 (82, 94) | 80 (76, 86) | <0.001 |
| Hb | 13.50 (12.50, 14.30) | 12.70 (11.40, 13.30) | <0.001 |
| Unknown | 10 | 6 |  |
| *1*Median (Q1, Q3) | | | |
| *2*Wilcoxon rank sum test | | | |

#Задание 2

trauma\_IMT <- trauma\_3 %>%  
 mutate('ИМТ' = Weight/Height\*100 %>% round(1))  
  
mean(trauma\_IMT$ИМТ) #средний уровень ИМТ

## [1] 47.82703

trauma\_high\_IMT <- trauma\_IMT %>%  
 filter(ИМТ > 30) %>%  
 nrow()  
  
trauma\_high\_IMT / nrow(trauma\_IMT) \*100 #доля пациентов с ожирением

## [1] 100

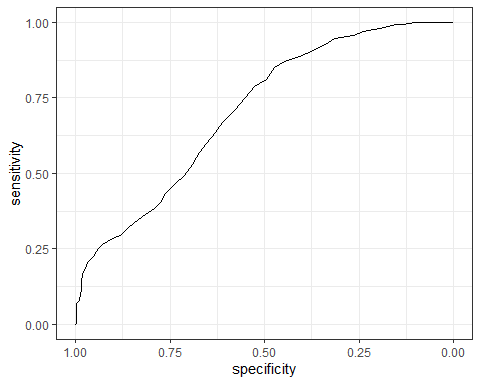
#Задание 3 ##ROC-кривая

roc\_curve\_1 <- roc(Death ~ Hb,   
 data = trauma\_3,  
 ci = T)

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

roc\_curve\_1 %>%   
 ggroc() +   
 theme\_bw()

 Кривая выше, чем диагональ, то есть плошадь под кривой больше 0.5. Это может говорить о том, что признак подходит для прогностической диангостики, то есть это не случайная диагностика (количественный признак не рандомно проводит классификацию по двум группам, а отклоняется от диагонали)

#Задание 4 ##Площадь под ROC-кривой и доверительный интервал

roc\_curve\_1 <- roc(Death ~ Hb,   
 data = trauma\_3,  
 ci = T)

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

roc\_curve\_1

##   
## Call:  
## roc.formula(formula = Death ~ Hb, data = trauma\_3, ci = T)  
##   
## Data: Hb in 605 controls (Death 0) > 403 cases (Death 1).  
## Area under the curve: 0.7078  
## 95% CI: 0.6763-0.7392 (DeLong)

Площадь под кривой - 0.7078 В доверительный интервал не входит 0,5, значит площадь под кривой значимо отличается от 0,5 => можем отвергнуть нулевую гипотезу. Признак подходит, чтобы предсказать смертельный исход

#Задание 5 ##Порог

roc\_curve\_1 %>% coords() #координаты для ROC-кривой

## threshold specificity sensitivity  
## 1 Inf 0.000000000 1.000000000  
## 2 16.05 0.001652893 1.000000000  
## 3 15.85 0.004958678 1.000000000  
## 4 15.75 0.009917355 1.000000000  
## 5 15.65 0.013223140 1.000000000  
## 6 15.50 0.016528926 1.000000000  
## 7 15.35 0.026446281 1.000000000  
## 8 15.25 0.028099174 1.000000000  
## 9 15.15 0.034710744 1.000000000  
## 10 15.05 0.054545455 1.000000000  
## 11 14.95 0.080991736 1.000000000  
## 12 14.85 0.097520661 1.000000000  
## 13 14.75 0.119008264 0.997518610  
## 14 14.65 0.132231405 0.992555831  
## 15 14.55 0.152066116 0.992555831  
## 16 14.45 0.196694215 0.980148883  
## 17 14.35 0.238016529 0.970223325  
## 18 14.25 0.266115702 0.957816377  
## 19 14.15 0.315702479 0.947890819  
## 20 14.05 0.338842975 0.928039702  
## 21 13.95 0.371900826 0.905707196  
## 22 13.85 0.406611570 0.888337469  
## 23 13.75 0.447933884 0.870967742  
## 24 13.65 0.472727273 0.851116625  
## 25 13.55 0.495867769 0.811414392  
## 26 13.45 0.527272727 0.786600496  
## 27 13.35 0.550413223 0.751861042  
## 28 13.25 0.578512397 0.709677419  
## 29 13.15 0.611570248 0.669975186  
## 30 13.05 0.629752066 0.635235732  
## 31 12.95 0.652892562 0.598014888  
## 32 12.85 0.672727273 0.568238213  
## 33 12.75 0.690909091 0.531017370  
## 34 12.65 0.712396694 0.493796526  
## 35 12.55 0.737190083 0.461538462  
## 36 12.45 0.761983471 0.434243176  
## 37 12.35 0.773553719 0.406947891  
## 38 12.25 0.790082645 0.384615385  
## 39 12.15 0.814876033 0.364764268  
## 40 12.05 0.826446281 0.352357320  
## 41 11.95 0.842975207 0.337468983  
## 42 11.85 0.866115702 0.315136476  
## 43 11.75 0.880991736 0.295285360  
## 44 11.65 0.902479339 0.285359801  
## 45 11.55 0.927272727 0.265508685  
## 46 11.45 0.938842975 0.250620347  
## 47 11.35 0.952066116 0.225806452  
## 48 11.25 0.966942149 0.205955335  
## 49 11.15 0.973553719 0.186104218  
## 50 11.05 0.980165289 0.166253102  
## 51 10.95 0.983471074 0.141439206  
## 52 10.85 0.985123967 0.114143921  
## 53 10.75 0.986776860 0.099255583  
## 54 10.65 0.990082645 0.079404467  
## 55 10.55 0.998347107 0.069478908  
## 56 10.45 0.998347107 0.057071960  
## 57 10.35 0.998347107 0.054590571  
## 58 10.25 0.998347107 0.042183623  
## 59 10.15 0.998347107 0.032258065  
## 60 10.05 0.998347107 0.027295285  
## 61 9.95 0.998347107 0.022332506  
## 62 9.85 0.998347107 0.014888337  
## 63 9.75 0.998347107 0.012406948  
## 64 9.65 0.998347107 0.007444169  
## 65 9.55 0.998347107 0.004962779  
## 66 9.45 0.998347107 0.002481390  
## 67 -Inf 1.000000000 0.000000000

#Определяем оптимальное пороговое значение

roc\_curve\_1 %>% coords(x = "best", best.method = "closest.topleft")

## threshold specificity sensitivity  
## 1 13.15 0.6115702 0.6699752

Оптимальное пороговое значение - 13.15 Чувствительность - 67% Специфичность - 61%

#Задание 6 ##Находим площадь под ROC-кривой для всех пколичественных переменных

trauma\_3 %>% names()

## [1] "id" "Name" "Sex" "Age" "Height" "Weight" "SBP" "DBP"   
## [9] "FOUR" "GSC" "Hb" "Death"

trauma\_3 %>%   
   
 select(Age,  
 Death,  
 Height,  
 Weight,  
 SBP,  
 DBP,  
 Hb) %>%   
   
 pivot\_longer(cols = !Death) %>%   
   
 group\_by(name) %>%   
   
 summarise(AUC = roc(Death, value, ci = T)$ci[2] %>% round(3),  
 AUC\_LCL = roc(Death, value, ci = T)$ci[1] %>% round(3),  
 AUC\_UCL = roc(Death, value, ci = T)$ci[3] %>% round(3))

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls < cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## Setting levels: control = 0, case = 1

## Setting direction: controls > cases

## # A tibble: 6 × 4  
## name AUC AUC\_LCL AUC\_UCL  
## <chr> <dbl> <dbl> <dbl>  
## 1 Age 0.527 0.491 0.563  
## 2 DBP 0.744 0.714 0.774  
## 3 Hb 0.708 0.676 0.739  
## 4 Height 0.482 0.445 0.518  
## 5 SBP 0.786 0.759 0.814  
## 6 Weight 0.518 0.482 0.554

Наибольшая площадь под кривой для переменной - SBP (систолическое артериальное давление при поступлении). У человека с черепно-мозговой травмой артериальная гипотензия может приводить к ухудшению перфузии головного мозга и повышает риск формирования вторичных ишемических повреждений. Уменьшение уровня систоличесого артериального давления является прогностически неблагоприятным фактором. Наименьшая площадь под кривой для перменной - Height (рост)