

1. Pracujte s daty v souboru 08_testovani.sta (tataž data jsou na listu data).
2. Vykreslete histogramy o 16 sloupcích pro proměnné výška skupina 1, výška skupina

výška skupina 1

výška skupina 2

3. Podložte své úsudky výsledky Lilieforsova a Shapiro-Wilksova testu.

výška skupina 1

výška skupina 2

Liliefors p:

Shapiro-Wilks p:

4. V případě, že některá z proměnných není normálně rozdělená, pokuste se navrhnou

Transformace:

5. Navrhnete použití příslušných testů shody pro dvojice proměnných výška skupina 1

Test shody:

Výška skupina 1 × Výška skupina 2:

6. Proveďte příslušné testy v aplikaci Statistica za předpokladu závislosti (párovosti) ho

Výsledky testů:

p hodnota:

7. Proveďte příslušné testy v aplikaci Statistica za předpokladu nezávislosti (tj. hodnoty

Výsledky testů:

p hodnota:

2, r1, Leukocty, Tep1 a Tep2. Co usuzujete o jejich rozdělení?

r1

Leukocyty

Tep1

r1

Leukocyty

Tep1

it transformaci na normální rozdělení nebo zdůvodnit, proč není taková transformace možná.

& výška skupina 2 a Tep1 & Tep2 a formulujte nulové a alternativní hypotézy.

Tep1 × Tep2:

odnot v tabulce (tj. předpokládejte, že hodnoty na jednom řádku patří jednomu pacientovi)

p hodnota:

/ jsou v řádcích náhodně).

p hodnota:

Tep2

Tep2

| Výška postavy | výška skupina 1 100 | výška skupina 1 | výška skupina 2 | výška skupina 1+2 | skupina |
|---------------|---------------------|-----------------|-----------------|-------------------|---------|
| 176.997678 | 176.997678 | 176.997678 | 158.45511 | 176.997678 | 1 |
| 167.223168 | 167.223168 | 167.223168 | 150.777451 | 167.223168 | 1 |
| 182.442573 | 182.442573 | 182.442573 | 163.282014 | 182.442573 | 1 |
| 192.764735 | 192.764735 | 192.764735 | 182.652239 | 192.764735 | 1 |
| 191.983502 | 191.983502 | 191.983502 | 148.350169 | 191.983502 | 1 |
| 197.331331 | 197.331331 | 197.331331 | 161.181206 | 197.331331 | 1 |
| 158.164124 | 158.164124 | 158.164124 | 172.804571 | 158.164124 | 1 |
| 177.658188 | 177.658188 | 177.658188 | 149.085927 | 177.658188 | 1 |
| 190.950225 | 190.950225 | 190.950225 | 159.962131 | 190.950225 | 1 |
| 169.132994 | 169.132994 | 169.132994 | 168.624511 | 169.132994 | 1 |
| 173.097958 | 173.097958 | 173.097958 | 156.823567 | 173.097958 | 1 |
| 163.095677 | 163.095677 | 163.095677 | 165.455058 | 163.095677 | 1 |
| 161.530891 | 161.530891 | 161.530891 | 161.098806 | 161.530891 | 1 |
| 170.223705 | 170.223705 | 170.223705 | 150.615879 | 170.223705 | 1 |
| 172.264929 | 172.264929 | 172.264929 | 158.885028 | 172.264929 | 1 |
| 158.820688 | 158.820688 | 158.820688 | 169.138603 | 158.820688 | 1 |
| 174.320751 | 178.320751 | 174.320751 | 158.062867 | 174.320751 | 1 |
| 175.959524 | 175.959524 | 175.959524 | 144.495616 | 175.959524 | 1 |
| 181.348531 | 181.348531 | 181.348531 | 165.246727 | 181.348531 | 1 |
| 176.34507 | 178.34507 | 176.34507 | 175.44613 | 176.34507 | 1 |
| 176.730094 | 176.730094 | 176.730094 | 168.952043 | 176.730094 | 1 |
| | 181.297595 | 176.297595 | 165.81008 | 176.297595 | 1 |
| | 193.426416 | 193.426416 | 181.355481 | 193.426416 | 1 |
| | 171.147155 | 179.147155 | 140.990924 | 179.147155 | 1 |
| | 182.138424 | 178.138424 | 161.544117 | 178.138424 | 1 |
| | 174.867926 | 174.867926 | 173.805266 | 174.867926 | 1 |
| | 199.72212 | 199.72212 | 163.130617 | 199.72212 | 1 |
| | 188.65673 | 188.65673 | 168.344909 | 188.65673 | 1 |
| | 203.756547 | 203.756547 | 144.556416 | 203.756547 | 1 |
| | 173.450933 | 173.450933 | 157.092777 | 173.450933 | 1 |
| | 196.614558 | 196.614558 | 148.732179 | 196.614558 | 1 |
| | 163.876023 | 163.876023 | 144.823125 | 163.876023 | 1 |
| | 185.389484 | 185.389484 | 154.721645 | 185.389484 | 1 |
| | 189.021915 | 189.021915 | 156.416943 | 189.021915 | 1 |
| | 199.189156 | 199.189156 | 166.712048 | 199.189156 | 1 |
| | 179.154829 | 179.154829 | 167.392896 | 179.154829 | 1 |
| | 174.762049 | 174.762049 | 174.450552 | 174.762049 | 1 |
| | 186.751384 | 186.751384 | 176.765489 | 186.751384 | 1 |
| | 176.186762 | 176.186762 | 158.298529 | 176.186762 | 1 |
| | 187.576114 | 187.576114 | 164.58964 | 187.576114 | 1 |
| | 165.558134 | 165.558134 | 154.665291 | 165.558134 | 1 |
| | 171.527625 | 171.527625 | 164.604954 | 171.527625 | 1 |
| | 164.78429 | 164.78429 | 157.804969 | 164.78429 | 1 |
| | 176.37123 | 176.37123 | 154.06723 | 176.37123 | 1 |
| | 179.675208 | 179.675208 | 171.121801 | 179.675208 | 1 |
| | 180.28117 | 180.28117 | 171.636257 | 180.28117 | 1 |
| | 176.77284 | 176.77284 | 140.858775 | 176.77284 | 1 |
| | 201.945016 | 201.945016 | 175.887144 | 201.945016 | 1 |
| | 162.575173 | 162.575173 | 170.611006 | 162.575173 | 1 |

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|------------|------------|------------|------------|---|
| 172.63523 | 172.63523 | 156.481313 | 172.63523 | 1 |
| 154.224193 | 154.224193 | 176.393597 | 154.224193 | 1 |
| 194.4767 | 194.4767 | 171.073666 | 194.4767 | 1 |
| 167.202364 | 167.202364 | 162.169963 | 167.202364 | 1 |
| 178.464201 | 173.464201 | 137.756306 | 173.464201 | 1 |
| 187.577137 | 187.577137 | 159.585646 | 187.577137 | 1 |
| 184.667118 | 184.667118 | 167.611834 | 184.667118 | 1 |
| 188.746088 | 188.746088 | 157.528255 | 188.746088 | 1 |
| 185.957418 | 185.957418 | 163.939408 | 185.957418 | 1 |
| 166.2815 | 166.2815 | 146.304965 | 166.2815 | 1 |
| 168.842615 | 168.842615 | 141.377186 | 168.842615 | 1 |
| 186.939945 | 186.939945 | 161.934791 | 186.939945 | 1 |
| 183.226364 | 183.226364 | 177.376169 | 183.226364 | 1 |
| 170.601623 | 170.601623 | 166.893299 | 170.601623 | 1 |
| 177.590521 | 177.590521 | 143.33351 | 177.590521 | 1 |
| 181.315357 | 181.315357 | 147.443289 | 181.315357 | 1 |
| 185.577976 | 185.577976 | 164.9964 | 185.577976 | 1 |
| 181.38715 | 181.38715 | 159.046531 | 181.38715 | 1 |
| 170.890387 | 170.890387 | 163.873356 | 170.890387 | 1 |
| 198.848459 | 198.848459 | 168.505276 | 198.848459 | 1 |
| 184.871981 | 184.871981 | 141.606197 | 184.871981 | 1 |
| 180.722389 | 180.722389 | 153.7653 | 180.722389 | 1 |
| 188.298412 | 188.298412 | 156.015913 | 188.298412 | 1 |
| 188.620077 | 188.620077 | 162.755928 | 188.620077 | 1 |
| 173.634685 | 173.634685 | 154.982784 | 173.634685 | 1 |
| 170.768083 | 170.768083 | 154.106406 | 170.768083 | 1 |
| 191.111888 | 191.111888 | 143.956923 | 191.111888 | 1 |
| 167.988213 | 167.988213 | 159.89634 | 167.988213 | 1 |
| 164.411079 | 164.411079 | 171.23326 | 164.411079 | 1 |
| 187.113249 | 187.113249 | 148.297236 | 187.113249 | 1 |
| 186.384062 | 186.384062 | 156.177712 | 186.384062 | 1 |
| 202.056884 | 202.056884 | 172.950068 | 202.056884 | 1 |
| 194.437546 | 194.437546 | 158.315604 | 194.437546 | 1 |
| 193.039039 | 193.039039 | 144.338501 | 193.039039 | 1 |
| 181.129604 | 181.129604 | 165.686445 | 181.129604 | 1 |
| 180.019509 | 180.019509 | 146.277589 | 180.019509 | 1 |
| 184.537014 | 184.537014 | 163.603463 | 184.537014 | 1 |
| 179.744853 | 179.744853 | 158.207647 | 179.744853 | 1 |
| 169.453249 | 169.453249 | 170.208578 | 169.453249 | 1 |
| 162.251938 | 162.251938 | 154.876657 | 162.251938 | 1 |
| 188.283314 | 188.283314 | 148.805484 | 188.283314 | 1 |
| 184.442245 | 184.442245 | 161.313811 | 184.442245 | 1 |
| 186.179062 | 186.179062 | 161.665001 | 186.179062 | 1 |
| 182.134732 | 182.134732 | 153.070765 | 182.134732 | 1 |
| 169.730691 | 169.730691 | 173.170848 | 169.730691 | 1 |
| 192.381952 | 192.381952 | 167.295716 | 192.381952 | 1 |
| 176.887868 | 176.887868 | 155.834708 | 176.887868 | 1 |
| 171.600782 | 171.600782 | 161.918431 | 171.600782 | 1 |
| 171.788718 | 171.788718 | 153.631877 | 171.788718 | 1 |
| 175.710073 | 175.710073 | 166.668984 | 175.710073 | 1 |

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|------------|------------|------------|------------|---|
| 175.466385 | 175.466385 | 175.622527 | 175.466385 | 1 |
| | 174.762049 | 145.22685 | 174.762049 | 1 |
| | 188.494294 | 146.178841 | 188.494294 | 1 |
| | 185.132074 | 167.082758 | 185.132074 | 1 |
| | 173.916958 | 155.226835 | 173.916958 | 1 |
| | 193.049794 | 150.110814 | 193.049794 | 1 |
| | 162.390636 | 167.191306 | 162.390636 | 1 |
| | 185.505717 | 139.351924 | 185.505717 | 1 |
| | 178.837279 | 149.226399 | 178.837279 | 1 |
| | 180.417413 | 156.969655 | 180.417413 | 1 |
| | 173.45946 | 161.195838 | 173.45946 | 1 |
| | 174.50406 | 168.028337 | 174.50406 | 1 |
| | 188.493203 | 148.706168 | 188.493203 | 1 |
| | 188.030452 | 161.226658 | 188.030452 | 1 |
| | 184.564163 | 161.65337 | 184.564163 | 1 |
| | 186.913683 | 157.421628 | 186.913683 | 1 |
| | 196.30624 | 163.19817 | 196.30624 | 1 |
| | 183.039145 | 149.429193 | 183.039145 | 1 |
| | 185.889956 | 156.21308 | 185.889956 | 1 |
| | 198.528362 | 169.121209 | 198.528362 | 1 |
| | 176.644431 | 159.74026 | 176.644431 | 1 |
| | 190.382746 | 167.071935 | 190.382746 | 1 |
| | 181.435046 | 148.297236 | 181.435046 | 1 |
| | 191.410407 | 178.00513 | 191.410407 | 1 |
| | 178.517012 | 169.560222 | 178.517012 | 1 |
| | 172.201833 | 141.155997 | 172.201833 | 1 |
| | 190.759936 | 161.995625 | 190.759936 | 1 |
| | 174.18178 | 156.469103 | 174.18178 | 1 |
| | 185.33912 | 162.609227 | 185.33912 | 1 |
| | 185.457719 | 178.032279 | 185.457719 | 1 |
| | 176.835629 | 161.732519 | 176.835629 | 1 |
| | 175.592339 | 156.591782 | 175.592339 | 1 |
| | 166.340072 | 162.729712 | 166.340072 | 1 |
| | 199.929576 | 145.716886 | 199.929576 | 1 |
| | 174.335121 | 154.987127 | 174.335121 | 1 |
| | 180.861291 | 161.373246 | 180.861291 | 1 |
| | 177.657392 | 174.1486 | 177.657392 | 1 |
| | 208.353679 | 152.085191 | 208.353679 | 1 |
| | 192.519786 | 160.461068 | 192.519786 | 1 |
| | 188.80907 | 159.233887 | 188.80907 | 1 |
| | 193.321642 | 154.512075 | 193.321642 | 1 |
| | 181.878709 | 160.096009 | 181.878709 | 1 |
| | 185.419577 | 152.189396 | 185.419577 | 1 |
| | 177.503801 | 156.603935 | 177.503801 | 1 |
| | 167.789124 | 160.577506 | 167.789124 | 1 |
| | 192.666851 | 155.096118 | 192.666851 | 1 |
| | 177.111127 | 158.984276 | 177.111127 | 1 |
| | 166.941248 | 148.239369 | 166.941248 | 1 |
| | 187.642541 | 157.25519 | 187.642541 | 1 |
| | 187.842823 | 163.349101 | 187.842823 | 1 |

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| 184.281549 | 168.59236 | 184.281549 | 1 |
| 184.038816 | 175.119031 | 184.038816 | 1 |
| 173.519032 | 148.002378 | 173.519032 | 1 |
| 187.230983 | 168.245638 | 187.230983 | 1 |
| 185.252878 | 168.331926 | 185.252878 | 1 |
| 190.750387 | 142.811141 | 190.750387 | 1 |
| 152.305523 | 173.3198 | 152.305523 | 1 |
| 184.63815 | 174.814259 | 184.63815 | 1 |
| 194.671377 | 152.806715 | 194.671377 | 1 |
| 162.77417 | 138.303094 | 162.77417 | 1 |
| 180.454941 | 164.220419 | 180.454941 | 1 |
| 193.54033 | 143.725456 | 193.54033 | 1 |
| 196.882041 | 160.347757 | 196.882041 | 1 |
| 182.386651 | 170.864255 | 182.386651 | 1 |
| 181.450508 | 153.994084 | 181.450508 | 1 |
| 198.545416 | 151.69188 | 198.545416 | 1 |
| 179.574152 | 169.019618 | 179.574152 | 1 |
| 173.431015 | 161.755825 | 173.431015 | 1 |
| 189.073756 | 163.752427 | 189.073756 | 1 |
| 179.900933 | 161.451281 | 179.900933 | 1 |
| 190.391932 | 158.753287 | 190.391932 | 1 |
| 184.347044 | 152.944754 | 184.347044 | 1 |
| 194.533634 | 174.016632 | 194.533634 | 1 |
| 178.787985 | 171.627253 | 178.787985 | 1 |
| 170.382821 | 146.588637 | 170.382821 | 1 |
| 164.614124 | 159.291413 | 164.614124 | 1 |
| 154.349339 | 174.967281 | 154.349339 | 1 |
| 181.031879 | 152.930998 | 181.031879 | 1 |
| 182.991919 | 152.295852 | 182.991919 | 1 |
| 179.822126 | 149.893922 | 179.822126 | 1 |
| 182.004992 | 159.143324 | 182.004992 | 1 |
| 182.582328 | 158.451244 | 182.582328 | 1 |
| 194.761736 | 161.526314 | 194.761736 | 1 |
| 180.852845 | 155.804649 | 180.852845 | 1 |
| 168.832633 | 154.39251 | 168.832633 | 1 |
| 166.100875 | 178.106675 | 166.100875 | 1 |
| 181.914532 | 166.550954 | 181.914532 | 1 |
| 189.510813 | 154.51386 | 189.510813 | 1 |
| 164.912074 | 161.026501 | 164.912074 | 1 |
| 173.900383 | 179.72212 | 173.900383 | 1 |
| 185.235324 | 142.609916 | 185.235324 | 1 |
| 177.83239 | 159.580291 | 177.83239 | 1 |
| 176.564202 | 159.975898 | 176.564202 | 1 |
| 178.36524 | 149.738444 | 178.36524 | 1 |
| 175.603298 | 157.626719 | 175.603298 | 1 |
| 171.973777 | 161.389458 | 171.973777 | 1 |
| 186.447965 | 152.277299 | 186.447965 | 1 |
| 180.588227 | 170.824306 | 180.588227 | 1 |
| 192.634518 | 163.170805 | 192.634518 | 1 |
| 182.621891 | 136.018808 | 182.621891 | 1 |

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|------------|------------|------------|---|
| 180.571367 | 148.916443 | 180.571367 | 1 |
| 182.269542 | 160.326327 | 182.269542 | 1 |
| 182.144907 | 170.167446 | 182.144907 | 1 |
| 179.92541 | 165.997663 | 179.92541 | 1 |
| 167.761657 | 146.76883 | 167.761657 | 1 |
| 182.353613 | 161.160402 | 182.353613 | 1 |
| 181.482215 | 154.250493 | 181.482215 | 1 |
| 187.524238 | 127.9334 | 187.524238 | 1 |
| 172.638232 | 173.747967 | 172.638232 | 1 |
| 186.164248 | 173.52123 | 186.164248 | 1 |
| 182.191109 | 156.429176 | 182.191109 | 1 |
| 181.143462 | 152.322591 | 181.143462 | 1 |
| 188.681241 | 176.968534 | 188.681241 | 1 |
| 198.028368 | 159.853503 | 198.028368 | 1 |
| 166.9161 | 146.518742 | 166.9161 | 1 |
| 167.657475 | 171.275051 | 167.657475 | 1 |
| 185.600327 | 166.058212 | 185.600327 | 1 |
| 191.906991 | 156.322981 | 191.906991 | 1 |
| 171.217965 | 176.254444 | 171.217965 | 1 |
| 158.546202 | 185.733607 | 158.546202 | 1 |
| 171.018217 | 148.455079 | 171.018217 | 1 |
| 182.019829 | 152.42591 | 182.019829 | 1 |
| 184.290769 | 144.844862 | 184.290769 | 1 |
| 170.15065 | 168.600114 | 170.15065 | 1 |
| 171.40764 | 153.082429 | 171.40764 | 1 |
| 184.616857 | 147.784281 | 184.616857 | 1 |
| 181.215869 | 177.616549 | 181.215869 | 1 |
| 174.599011 | 161.335411 | 174.599011 | 1 |
| 181.024955 | 156.972861 | 181.024955 | 1 |
| 170.584956 | 159.786939 | 170.584956 | 1 |
| 171.04682 | 163.964226 | 171.04682 | 1 |
| 190.465715 | 156.252495 | 190.465715 | 1 |
| 196.265903 | 150.974629 | 196.265903 | 1 |
| 173.279334 | 174.993111 | 173.279334 | 1 |
| 178.28068 | 157.334544 | 178.28068 | 1 |
| 181.127296 | 147.228352 | 181.127296 | 1 |
| 198.4481 | 160.922728 | 198.4481 | 1 |
| 185.950119 | 162.153524 | 185.950119 | 1 |
| 196.548029 | 169.124687 | 196.548029 | 1 |
| 181.770582 | 148.86683 | 181.770582 | 1 |
| 195.601836 | 150.999891 | 195.601836 | 1 |
| 173.562392 | 158.452017 | 173.562392 | 1 |
| 170.339006 | 168.338407 | 170.339006 | 1 |
| 191.93971 | 168.80907 | 191.93971 | 1 |
| 189.187511 | 163.148284 | 189.187511 | 1 |
| 162.706322 | 166.951632 | 162.706322 | 1 |
| 192.719943 | 167.212134 | 192.719943 | 1 |
| 178.002033 | 164.055414 | 178.002033 | 1 |
| 168.650984 | 155.121993 | 168.650984 | 1 |
| 161.20993 | 162.238153 | 161.20993 | 1 |

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|------------|------------|------------|---|
| 171.751133 | 168.593474 | 171.751133 | 1 |
| 184.733761 | 152.224639 | 184.733761 | 1 |
| 189.177006 | 165.574395 | 189.177006 | 1 |
| 179.305214 | 167.322706 | 179.305214 | 1 |
| 179.461579 | 154.294672 | 179.461579 | 1 |
| 182.146476 | 154.758537 | 182.146476 | 1 |
| 176.479687 | 151.268487 | 176.479687 | 1 |
| 189.281234 | 154.862696 | 189.281234 | 1 |
| 175.05726 | 154.737459 | 175.05726 | 1 |
| 203.434768 | 166.460209 | 203.434768 | 1 |
| 187.440235 | 156.129122 | 187.440235 | 1 |
| 186.106075 | 161.765147 | 186.106075 | 1 |
| 170.189099 | 166.245864 | 170.189099 | 1 |
| 188.716961 | 156.722829 | 188.716961 | 1 |
| 194.472334 | 166.748496 | 194.472334 | 1 |
| 172.686298 | 151.651839 | 172.686298 | 1 |
| 176.988879 | 151.476034 | 176.988879 | 1 |
| 166.603643 | 155.374628 | 166.603643 | 1 |
| 193.53078 | 163.374998 | 193.53078 | 1 |
| 190.451186 | 147.264573 | 190.451186 | 1 |
| 181.843682 | 163.307059 | 181.843682 | 1 |
| 158.088817 | 155.555231 | 158.088817 | 1 |
| 185.055426 | 162.747197 | 185.055426 | 1 |
| 185.262541 | 159.038084 | 185.262541 | 1 |
| 192.161058 | 170.659483 | 192.161058 | 1 |
| 170.417996 | 151.624713 | 170.417996 | 1 |
| 192.055966 | 172.33434 | 192.055966 | 1 |
| 174.380869 | 152.108178 | 174.380869 | 1 |
| 172.663288 | 171.241877 | 172.663288 | 1 |
| 162.753889 | 147.441606 | 162.753889 | 1 |
| 193.746012 | 145.710519 | 193.746012 | 1 |
| 170.346328 | 168.798929 | 170.346328 | 1 |
| 195.458727 | 148.030595 | 195.458727 | 1 |
| 168.327522 | 168.742722 | 168.327522 | 1 |
| 175.909673 | 137.337939 | 175.909673 | 1 |
| 166.921489 | 166.090409 | 166.921489 | 1 |
| 195.897967 | 162.07217 | 195.897967 | 1 |
| 180.28806 | 161.740295 | 180.28806 | 1 |
| 183.304626 | 167.952531 | 183.304626 | 1 |
| 189.763971 | 163.535786 | 189.763971 | 1 |
| 199.492018 | 176.358536 | 199.492018 | 1 |
| 179.391082 | 167.918993 | 179.391082 | 1 |
| 169.703429 | 156.764768 | 169.703429 | 1 |
| 174.306359 | 162.564923 | 174.306359 | 1 |
| 188.475661 | 162.490674 | 188.475661 | 1 |
| 188.723691 | 147.59331 | 188.723691 | 1 |
| 185.107654 | 176.040303 | 185.107654 | 1 |
| 165.139721 | 152.769017 | 165.139721 | 1 |
| 166.038301 | 166.927303 | 166.038301 | 1 |
| 178.561862 | 148.567561 | 178.561862 | 1 |

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|------------|------------|------------|---|
| 173.710389 | 157.88796 | 173.710389 | 1 |
| 173.724362 | 152.697281 | 173.724362 | 1 |
| 188.789902 | 161.253647 | 188.789902 | 1 |
| 171.617096 | 155.567043 | 171.617096 | 1 |
| 178.851149 | 152.054813 | 178.851149 | 1 |
| 177.678628 | 149.828689 | 177.678628 | 1 |
| 195.18415 | 153.816323 | 195.18415 | 1 |
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| 172.532503 | 172.181908 | 172.532503 | 1 |
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| 192.839382 | 142.222289 | 192.839382 | 1 |
| 165.646537 | 159.456213 | 165.646537 | 1 |
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| 180.831346 | 149.551452 | 180.831346 | 1 |
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| 187.245899 | 151.096956 | 187.245899 | 1 |
| 179.90323 | 169.730752 | 179.90323 | 1 |
| 190.022291 | 140.207849 | 190.022291 | 1 |
| 169.860726 | 135.374158 | 169.860726 | 1 |
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| 168.304808 | 155.709231 | 168.304808 | 1 |
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| 155.991705 | 159.551187 | 155.991705 | 1 |
| 180.167915 | 143.367161 | 180.167915 | 1 |
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| 179.688225 | 171.492943 | 179.688225 | 1 |
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| 179.475358 | 148.632021 | 179.475358 | 1 |
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| 181.927788 | 153.16093 | 181.927788 | 1 |
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| 199.023082 | 147.42137 | 199.023082 | 1 |
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| 172.579933 | 167.20122 | 172.579933 | 1 |
| 187.392896 | 142.423014 | 187.392896 | 1 |
| 203.317261 | 147.585034 | 203.317261 | 1 |
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| 181.797014 | 148.22716 | 181.797014 | 1 |
| 175.267092 | 150.242191 | 175.267092 | 1 |
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| 169.019079 | 168.155689 | 169.019079 | 1 |

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| 185.191498 | 155.534949 | 185.191498 | 1 |
| 189.765199 | 172.501368 | 189.765199 | 1 |
| 171.361051 | 174.680381 | 171.361051 | 1 |
| 183.714695 | 158.651469 | 183.714695 | 1 |
| 185.309153 | 143.873249 | 185.309153 | 1 |
| 189.755354 | 151.054801 | 189.755354 | 1 |
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| 178.410192 | 153.104757 | 178.410192 | 1 |
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| 170.786796 | 149.009279 | 170.786796 | 1 |
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| 205.994086 | 173.187241 | 205.994086 | 1 |
| 174.207133 | 170.764029 | 174.207133 | 1 |
| 172.154062 | 154.020641 | 172.154062 | 1 |
| 192.124292 | 149.963794 | 192.124292 | 1 |
| 176.954443 | 167.073913 | 176.954443 | 1 |
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| 176.015913 | 164.619415 | 176.015913 | 1 |
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| 200.372318 | 148.228683 | 200.372318 | 1 |
| 182.403181 | 164.672245 | 182.403181 | 1 |
| 194.272496 | 151.446293 | 194.272496 | 1 |
| 179.730312 | 176.443664 | 179.730312 | 1 |
| 177.614134 | 162.48674 | 177.614134 | 1 |
| 180.290356 | 179.027721 | 180.290356 | 1 |
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| 193.827139 | 152.948665 | 193.827139 | 1 |
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| 175.603298 | 157.064037 | 175.603298 | 1 |

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| 168.539571 | 173.306817 | 168.539571 | 1 |
| 192.488022 | 176.688 | 192.488022 | 1 |
| 204.705878 | 173.61534 | 204.705878 | 1 |
| 189.158362 | 169.966834 | 189.158362 | 1 |
| 179.008878 | 170.849089 | 179.008878 | 1 |
| 171.409845 | 151.48813 | 171.409845 | 1 |
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| 177.45246 | 181.016422 | 177.45246 | 1 |
| 176.050667 | 157.574764 | 176.050667 | 1 |
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| 183.441482 | 160.119724 | 183.441482 | 1 |
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| 181.415731 | 163.17724 | 181.415731 | 1 |
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| 194.696116 | 157.930968 | 194.696116 | 1 |
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| 166.685771 | 156.609608 | 166.685771 | 1 |
| 175.258531 | 162.474906 | 175.258531 | 1 |
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| 170.651463 | 151.318759 | 170.651463 | 1 |
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| 181.498461 | 134.094681 | 181.498461 | 1 |
| 170.414381 | 153.095048 | 170.414381 | 1 |
| 188.41992 | 164.01476 | 188.41992 | 1 |

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| 187.062113 | 162.46938 | 187.062113 | 1 |
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| 194.922853 | 159.258432 | 194.922853 | 1 |
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| 178.12519 | 160.539194 | 178.12519 | 1 |
| 190.154645 | 163.12981 | 190.154645 | 1 |
| 190.157191 | 152.036965 | 190.157191 | 1 |
| 177.100758 | 159.657598 | 177.100758 | 1 |
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| 181.637864 | 169.30952 | 181.637864 | 1 |
| 192.62772 | 159.915462 | 192.62772 | 1 |
| 190.560098 | 150.40831 | 190.560098 | 1 |
| 183.690934 | 163.137848 | 183.690934 | 1 |
| 172.398375 | 166.013238 | 172.398375 | 1 |
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| 187.031713 | 180.641528 | 187.031713 | 1 |
| 170.570632 | 151.457321 | 170.570632 | 1 |
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| 164.025771 | 172.16747 | 164.025771 | 1 |
| 194.542456 | 185.609916 | 194.542456 | 1 |
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| 173.385381 | 158.538669 | 173.385381 | 1 |
| 192.799364 | 173.109161 | 192.799364 | 1 |
| 187.004314 | 150.227388 | 187.004314 | 1 |
| 189.242467 | 176.859804 | 189.242467 | 1 |
| 169.045591 | 170.055214 | 169.045591 | 1 |
| 192.66003 | 139.706354 | 192.66003 | 1 |
| 175.663052 | 162.447302 | 175.663052 | 1 |
| 192.499709 | 147.451702 | 192.499709 | 1 |
| 164.044916 | 164.500578 | 164.044916 | 1 |
| 171.019376 | 168.355755 | 171.019376 | 1 |
| 210.157389 | 147.074671 | 210.157389 | 1 |
| 175.731025 | 150.65858 | 175.731025 | 1 |
| 175.842211 | 160.552984 | 175.842211 | 1 |
| 186.701498 | 165.98211 | 186.701498 | 1 |
| 176.886254 | 176.467357 | 176.886254 | 1 |
| 162.60646 | 161.876367 | 162.60646 | 1 |
| 180.495527 | 172.639612 | 180.495527 | 1 |
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| 188.958887 | 159.910881 | 188.958887 | 1 |
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| 180.82905 | 142.616873 | 180.82905 | 1 |
| 174.553821 | 159.512897 | 174.553821 | 1 |
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| 195.91693 | 147.772981 | 195.91693 | 1 |
| 209.05872 | 157.022474 | 209.05872 | 1 |
| 161.672227 | 143.856378 | 161.672227 | 1 |
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| 196.806189 | 162.559386 | 196.806189 | 1 |
| 189.645146 | 151.112873 | 189.645146 | 1 |
| 181.956619 | 163.125797 | 181.956619 | 1 |
| 191.531529 | 157.916893 | 191.531529 | 1 |
| 190.166173 | 150.801984 | 190.166173 | 1 |

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| 178.931969 | 162.676552 | 178.931969 | 1 |
| 172.224639 | 153.239976 | 172.224639 | 1 |
| 169.992853 | 171.595716 | 169.992853 | 1 |
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| 154.831735 | 159.703527 | 154.831735 | 1 |
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| 186.680443 | 148.498166 | 186.680443 | 1 |
| 188.026223 | 147.444971 | 188.026223 | 1 |
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| 175.121129 | 160.168689 | 175.121129 | 1 |
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| 173.57367 | 151.87628 | 173.57367 | 1 |
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| 183.01352 | 168.16317 | 183.01352 | 1 |
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| 188.22738 | 169.850601 | 188.22738 | 1 |
| 179.019633 | 183.756547 | 179.019633 | 1 |
| 173.073675 | 159.870329 | 173.073675 | 1 |
| 171.57244 | 159.144086 | 171.57244 | 1 |
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| 196.048625 | 181.902815 | 196.048625 | 1 |
| 200.228163 | 151.120808 | 200.228163 | 1 |
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| 199.890649 | 152.134269 | 199.890649 | 1 |
| 179.4723 | 161.628564 | 179.4723 | 1 |
| 180.174805 | 149.876051 | 180.174805 | 1 |
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| 173.271661 | 173.498357 | 173.271661 | 1 |
| 181.71467 | 161.930903 | 181.71467 | 1 |

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| 167.475189 | 149.521052 | 167.475189 | 1 |
| 184.012259 | 168.4965 | 184.012259 | 1 |
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| 169.22367 | 163.966704 | 169.22367 | 1 |
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| 163.496946 | 175.281785 | 163.496946 | 1 |
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| 172.974153 | 170.950225 | 172.974153 | 1 |
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| 183.965056 | 170.457779 | 183.965056 | 1 |
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| 173.442407 | 165.713446 | 173.442407 | 1 |
| 173.648726 | 142.233476 | 173.648726 | 1 |
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| 175.71678 | 158.34896 | 175.71678 | 1 |
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| 186.859386 | 162.644856 | 186.859386 | 1 |
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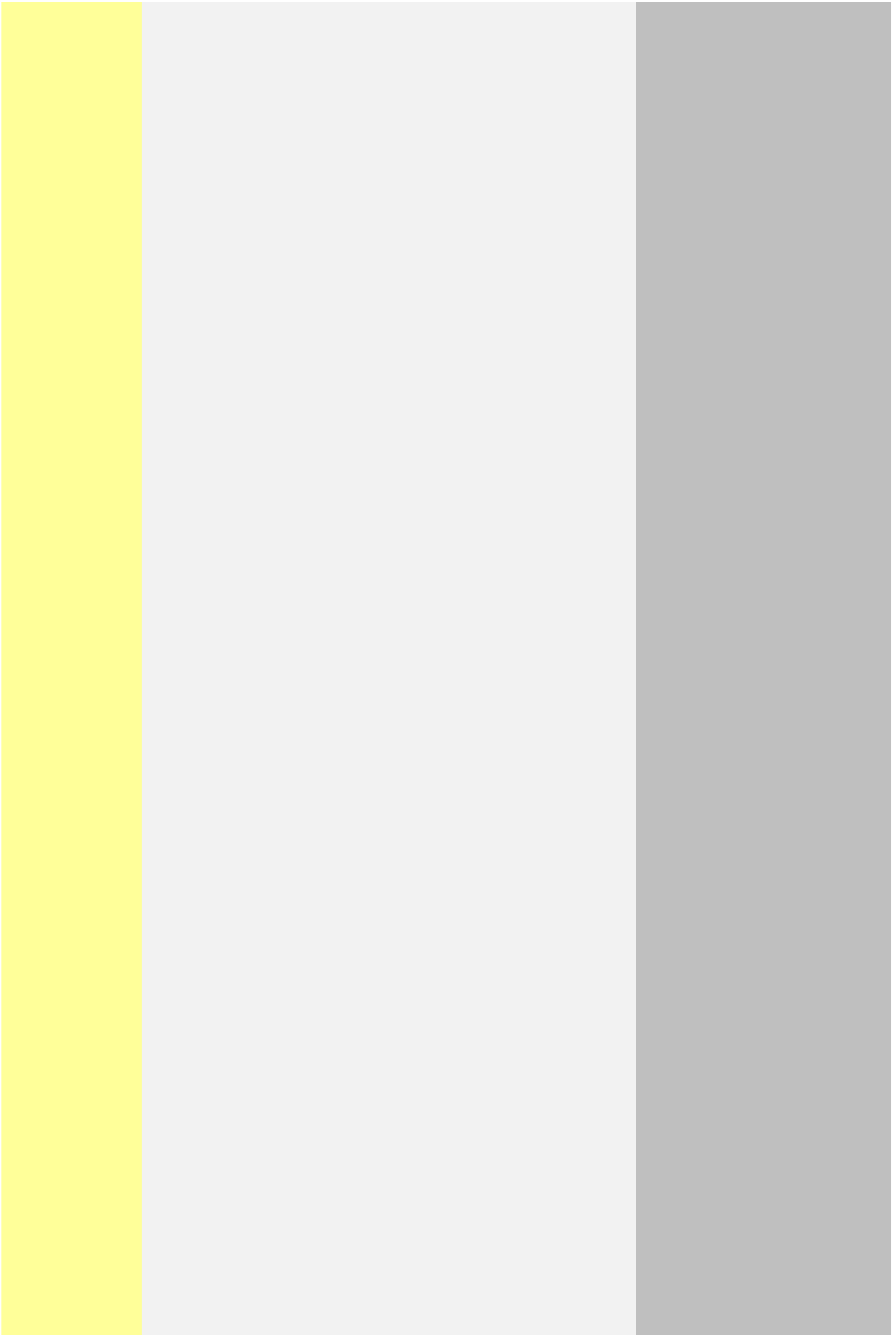














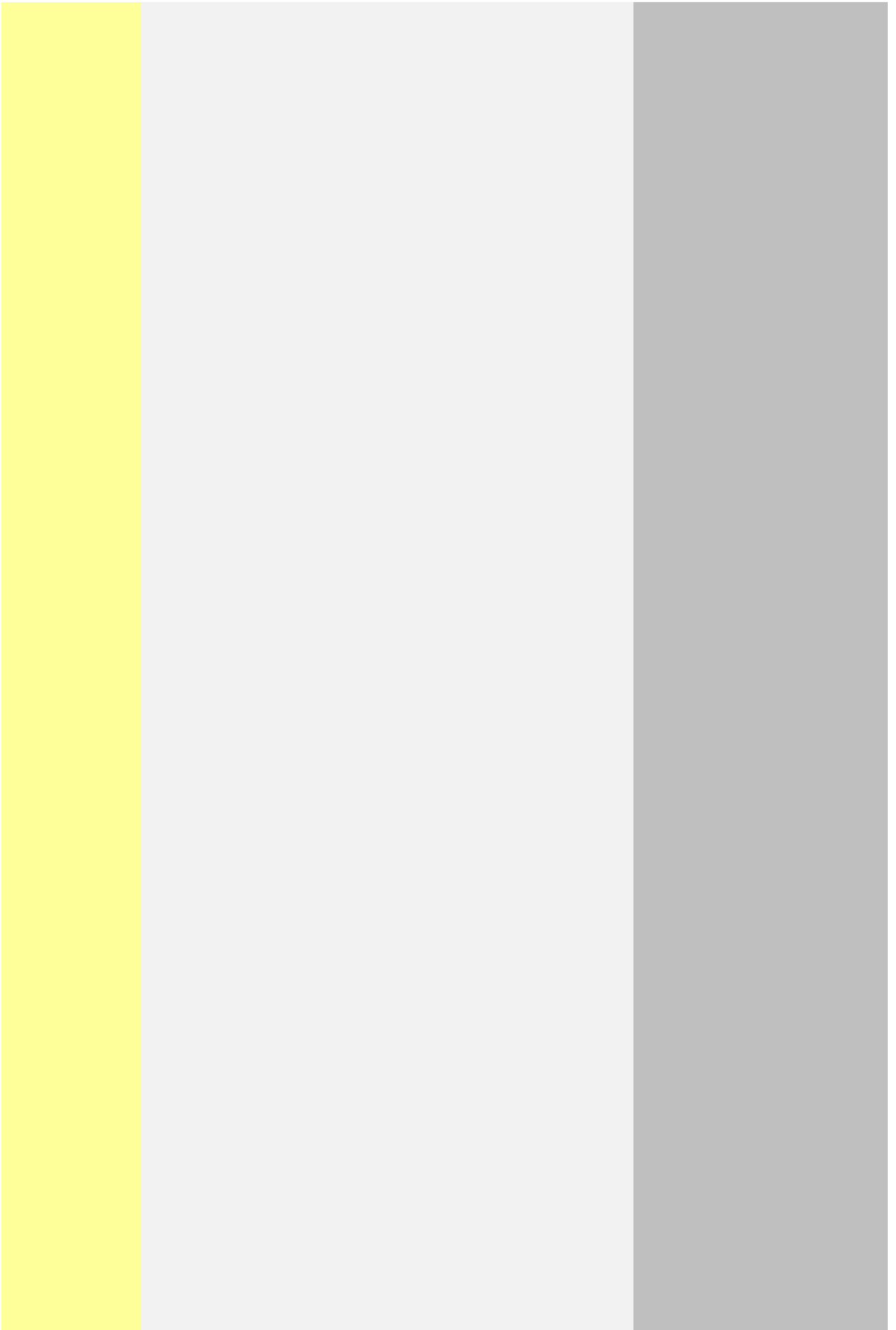














| skup1+2+3 | kategorizace | r1 | Leukocyty | Atropin | Tep1 | Tep2 | Tep1Tep2 | Parametr |
|------------|--------------|----------|-----------|---------|------|------|----------|------------|
| 176.997678 | 1 | 0.485632 | 9.122783 | ano | 170 | 160 | -10 | 91.933032 |
| 167.223168 | 1 | 0.275833 | 8.830292 | ano | 180 | 170 | -10 | 80.436087 |
| 182.442573 | 1 | 0.724413 | 9.030533 | ne | 140 | 135 | -5 | 82.488998 |
| 192.764735 | 1 | 0.81928 | 9.044314 | ano | 150 | 140 | -10 | 105.2524 |
| 191.983502 | 1 | 1.986402 | 9.021018 | ano | 160 | 140 | -20 | 86.944664 |
| 197.331331 | 1 | 1.170591 | 9.106211 | ano | 180 | 140 | -40 | 80.205462 |
| 158.164124 | 1 | 1.049273 | 8.943594 | ne | 105 | 105 | 0 | 102.901027 |
| 177.658188 | 1 | 1.24751 | 8.973105 | ano | 145 | 135 | -10 | 96.208328 |
| 190.950225 | 1 | 2.370011 | 9.048279 | ano | 150 | 135 | -15 | 81.099108 |
| 169.132994 | 1 | 1.540617 | 8.836115 | ne | 140 | 135 | -5 | 134.538789 |
| 173.097958 | 1 | 1.569732 | 9.03851 | ano | 170 | 160 | -10 | 91.559213 |
| 163.095677 | 1 | 5.834733 | 9.060292 | ano | 180 | 160 | -20 | 87.571806 |
| 161.530891 | 1 | 0.856919 | 8.951987 | ano | | | 0 | 100.405691 |
| 170.223705 | 1 | 1.716479 | 8.885432 | ano | 165 | 165 | 0 | 98.451023 |
| 172.264929 | 1 | 0.366457 | 9.050256 | ne | 170 | 160 | -10 | 95.377539 |
| 158.820688 | 1 | 0.97354 | 9.167469 | ano | 180 | 130 | -50 | 108.206564 |
| 174.320751 | 1 | 1.253394 | 8.788679 | ne | 160 | 150 | -10 | 112.993451 |
| 175.959524 | 1 | 0.143113 | 8.91541 | ano | 140 | 130 | -10 | 107.615745 |
| 181.348531 | 1 | 4.856862 | 8.903994 | ne | 160 | 130 | -30 | 106.048265 |
| 176.34507 | 1 | 1.691241 | 9.047395 | ne | 160 | 60 | -100 | 116.488161 |
| 176.730094 | 1 | 2.657169 | 8.876406 | ano | 170 | 170 | 0 | 101.962599 |
| 176.297595 | 1 | 3.766172 | 8.959617 | ano | 170 | 150 | -20 | 90.858862 |
| 193.426416 | 1 | 1.494523 | 9.077914 | ano | 140 | 145 | 5 | 82.57266 |
| 179.147155 | 1 | 2.547443 | 8.93226 | ano | 190 | 150 | -40 | 128.402565 |
| 178.138424 | 1 | 1.49378 | 9.066754 | ne | 150 | 140 | -10 | 97.370935 |
| 174.867926 | 1 | 3.712921 | 8.866183 | ano | 130 | 135 | 5 | 119.385334 |
| 199.72212 | 1 | 0.379311 | 9.002215 | ne | 110 | 140 | 30 | 115.444857 |
| 188.65673 | 1 | 0.362142 | 9.013879 | ne | 145 | 120 | -25 | 107.499801 |
| 203.756547 | 1 | 7.613819 | 8.915161 | ano | 140 | 140 | 0 | 92.941684 |
| 173.450933 | 1 | 0.629577 | 8.890739 | ne | 170 | 140 | -30 | 115.720434 |
| 196.614558 | 1 | 2.266988 | 8.804815 | ne | 120 | 115 | -5 | 115.18016 |
| 163.876023 | 1 | 1.112031 | 9.186409 | ne | 140 | 120 | -20 | 77.615721 |
| 185.389484 | 1 | 0.605593 | 8.776906 | ano | 135 | 135 | 0 | 95.178598 |
| 189.021915 | 1 | 6.038758 | 9.024338 | ano | 160 | 135 | -25 | 92.531389 |
| 199.189156 | 1 | 1.54204 | 8.90566 | ne | 135 | 125 | -10 | 79.732479 |
| 179.154829 | 1 | 0.882652 | 9.057123 | ne | 140 | 125 | -15 | 76.444929 |
| 174.762049 | 1 | 0.427752 | 8.979245 | ano | 135 | 140 | 5 | 101.563967 |
| 186.751384 | 1 | 2.667035 | 9.073123 | ne | 140 | 140 | 0 | 98.904906 |
| 176.186762 | 1 | 0.538074 | 8.979027 | ano | 180 | 160 | -20 | 95.03699 |
| 187.576114 | 1 | 0.898495 | 8.936962 | ano | 180 | 170 | -10 | 105.057638 |
| 165.558134 | 1 | 0.708882 | 8.859392 | ano | 150 | 160 | 10 | 96.122961 |
| 171.527625 | 1 | 4.523428 | 8.907561 | ano | 150 | 160 | 10 | 105.932679 |
| 164.78429 | 1 | 1.57854 | 8.991015 | ano | 180 | 180 | 0 | 81.232872 |
| 176.37123 | 1 | 1.366617 | 8.868972 | ne | 160 | 130 | -30 | 125.087593 |
| 179.675208 | 1 | 0.457778 | 8.836446 | ano | 140 | 150 | 10 | 109.055634 |
| 180.28117 | 1 | 2.187872 | 8.918547 | ne | 180 | 120 | -60 | 86.597618 |
| 176.77284 | 1 | 1.205645 | 8.901235 | ano | 150 | 130 | -20 | 111.333611 |
| 201.945016 | 1 | 1.355914 | 8.909325 | ne | 160 | 120 | -40 | 107.010925 |
| 162.575173 | 1 | 0.237216 | 8.747263 | ano | 180 | 140 | -40 | 109.564837 |

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|------------|---|----------|----------|-----|-----|-----|-----|------------|
| 172.63523 | 1 | 3.442018 | 8.8622 | ne | 140 | 170 | 30 | 95.164086 |
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| 194.4767 | 1 | 0.180823 | 9.026609 | ano | 160 | 155 | -5 | 121.169967 |
| 167.202364 | 1 | 3.20926 | 9.012193 | ano | 165 | 150 | -15 | 93.646776 |
| 173.464201 | 1 | 2.071713 | 9.100258 | ano | 150 | 140 | -10 | 93.096407 |
| 187.577137 | 1 | 1.024432 | 8.940466 | ne | 125 | 120 | -5 | 126.506473 |
| 184.667118 | 1 | 2.311154 | 8.975607 | ne | 140 | 130 | -10 | 116.574518 |
| 188.746088 | 1 | 1.457497 | 8.863835 | ne | 120 | 130 | 10 | 93.923103 |
| 185.957418 | 1 | 1.464944 | 8.867571 | ano | 140 | 115 | -25 | 118.63483 |
| 166.2815 | 1 | 0.833507 | 9.12041 | ne | 160 | 140 | -20 | 84.141778 |
| 168.842615 | 1 | 6.790737 | 8.942463 | ano | 180 | 130 | -50 | 105.054005 |
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| 190.391932 | 1 | 0.397668 | 129.041166 |
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| 176.564202 | 1 | 1.386229 | 97.495524 |
| 178.36524 | 1 | 2.27526 | 79.01175 |
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| 171.973777 | 1 | 1.109382 | 88.868382 |
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| 186.164248 | 1 | 3.29399 | 104.591186 |
| 182.191109 | 1 | 0.233473 | 118.313926 |
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| 188.681241 | 1 | 0.512759 | 102.94898 |
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| 167.657475 | 1 | 1.320667 | 102.884656 |
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| 191.906991 | 1 | 2.370011 | 108.17858 |
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| 158.546202 | 1 | 0.098022 | 127.171814 |
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| 178.28068 | 1 | 0.544323 | 97.094301 |
| 181.127296 | 1 | 0.453031 | 127.65953 |
| 198.4481 | 1 | 2.567511 | 107.862195 |
| 185.950119 | 1 | 1.897909 | 125.48677 |
| 196.548029 | 1 | 0.1524 | 107.22668 |
| 181.770582 | 1 | 1.905419 | 123.745997 |
| 195.601836 | 1 | 0.716562 | 100.803044 |
| 173.562392 | 1 | 0.390319 | 84.065346 |
| 170.339006 | 1 | 0.545175 | 98.447561 |
| 191.93971 | 1 | 0.422079 | 108.116081 |
| 189.187511 | 1 | 0.140777 | 106.683626 |
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| 178.002033 | 1 | 5.851686 | 98.359857 |
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| 161.20993 | 1 | 3.041845 | 92.037584 |

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| 203.434768 | 1 | 1.581763 | 95.063661 |
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| 166.603643 | 1 | 1.788486 | 133.190645 |
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| 170.417996 | 1 | 1.101986 | 90.763331 |
| 192.055966 | 1 | 0.533643 | 120.322022 |
| 174.380869 | 1 | 0.449288 | 95.287209 |
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| 168.327522 | 1 | 3.3969 | 140.14255 |
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| 188.475661 | 1 | 1.360706 | 110.251358 |
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| 192.839382 | 1 | 0.669832 | 121.98019 |
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| 169.860726 | 1 | 2.833628 | 87.293074 |
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| 178.646058 | 1 | 1.098519 | 113.783006 |
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| 179.688225 | 1 | 1.931733 | 81.215274 |
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| 163.171801 | 1 | 3.983321 | 73.946115 |
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| 203.317261 | 1 | 0.880205 | 94.327004 |
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| 181.797014 | 1 | 0.208302 | 87.995488 |
| 175.267092 | 1 | 2.700456 | 91.504046 |
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| 180.748469 | 1 | 0.380797 | 87.068247 |
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| 185.309153 | 1 | 2.222463 | 97.920435 |
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| 185.101549 | 1 | 1.590669 | 93.075994 |
| 195.769365 | 1 | 2.057741 | 99.586294 |
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| 169.764319 | 1 | 0.291577 | 99.406026 |
| 170.786796 | 1 | 1.047908 | 99.890417 |
| 187.297717 | 1 | 0.169014 | 65.428469 |
| 195.963269 | 1 | 0.118268 | 87.882904 |
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| 171.675656 | 1 | 0.377037 | 100.023533 |
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| 184.491267 | 1 | 3.4218 | 110.404085 |
| 205.994086 | 1 | 3.682334 | 117.67304 |
| 174.207133 | 1 | 0.496177 | 114.280647 |
| 172.154062 | 1 | 1.569332 | 84.155829 |
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| 176.954443 | 1 | 0.623535 | 81.342796 |
| 165.836803 | 1 | 5.526624 | 92.034941 |
| 191.194516 | 1 | 0.615033 | 82.565907 |
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| 182.403181 | 1 | 1.761591 | 117.654691 |
| 194.272496 | 1 | 0.789727 | 86.255466 |
| 179.730312 | 1 | 0.571037 | 121.402366 |
| 177.614134 | 1 | 0.86538 | 116.731781 |
| 180.290356 | 1 | 0.229808 | 108.415259 |
| 161.480141 | 1 | 5.179259 | 72.738897 |
| 173.10088 | 1 | 0.762263 | 93.065779 |
| 193.827139 | 1 | 0.43692 | 109.13285 |
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| 175.603298 | 1 | 2.744823 | 95.916141 |

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| 173.950064 | 1 | 1.595015 | 128.191789 |
| 168.539571 | 1 | 0.736387 | 94.069793 |
| 192.488022 | 1 | 0.509771 | 95.92448 |
| 204.705878 | 1 | 0.862373 | 109.055634 |
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| 179.008878 | 1 | 0.533096 | 95.226892 |
| 171.409845 | 1 | 0.783225 | 109.254711 |
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| 177.162126 | 1 | 0.425969 | 102.461434 |
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| 182.406341 | 1 | 0.200639 | 113.452075 |
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| 164.023043 | 1 | 0.225225 | 117.78842 |
| 171.873074 | 1 | 1.316684 | 100.824872 |
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| 161.5519 | 1 | 7.568528 | 107.767551 |
| 170.984975 | 1 | 0.282389 | 102.531249 |
| 180.99036 | 1 | 0.991506 | 91.75343 |
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| 188.379629 | 1 | 1.856242 | 105.517984 |
| 166.685771 | 1 | 3.114951 | 108.960819 |
| 175.258531 | 1 | 4.583872 | 94.037529 |
| 177.396321 | 1 | 0.227418 | 89.626542 |
| 170.651463 | 1 | 2.912637 | 107.827987 |
| 178.01139 | 1 | 4.673198 | 78.379424 |
| 181.498461 | 1 | 2.610477 | 105.620029 |
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| 188.41992 | 1 | 0.208302 | 68.792008 |

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| 178.258158 | 1 | 0.895458 | 109.095589 |
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| 172.44933 | 1 | 1.602799 | 80.735674 |
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| 165.786553 | 1 | 1.084689 | 115.295507 |
| 175.677331 | 1 | 0.240222 | 84.187889 |
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| 172.916264 | 1 | 0.165917 | 121.946698 |
| 185.8654 | 1 | 5.707533 | 109.635249 |
| 177.646387 | 1 | 0.510897 | 113.393856 |
| 185.280117 | 1 | 1.528266 | 123.260395 |
| 160.762368 | 1 | 1.463137 | 95.961366 |
| 168.895206 | 1 | 0.519393 | 96.558 |
| 194.860279 | 1 | 1.153064 | 82.067038 |
| 182.070601 | 1 | 0.717488 | 102.74801 |
| 188.940629 | 1 | 0.139001 | 98.70692 |
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| 167.322894 | 1 | 1.19686 | 82.225495 |
| 177.521945 | 1 | 1.938176 | 108.880022 |
| 178.12519 | 1 | 3.681012 | 85.317038 |
| 190.154645 | 1 | 0.279838 | 82.090435 |
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| 185.029369 | 1 | 0.604122 | 104.794833 |
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| 177.00168 | 1 | 1.093972 | 104.062423 |
| 185.046741 | 1 | 0.530166 | 106.547049 |
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| 199.232812 | 1 | 1.604993 | 107.4946 |
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| 167.106366 | 1 | 0.706239 | 97.255486 |
| 180.183991 | 1 | 10.828142 | 131.812351 |
| 194.784518 | 1 | 0.83747 | 104.13628 |
| 181.637864 | 1 | 0.659936 | 109.687483 |
| 192.62772 | 1 | 3.307387 | 84.993065 |
| 190.560098 | 1 | 0.268939 | 97.681505 |
| 183.690934 | 1 | 0.833443 | 102.667537 |
| 172.398375 | 1 | 1.064577 | 74.221691 |
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| 184.546337 | 1 | 0.119672 | 72.245723 |

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| 187.031713 | 1 | 3.898406 | 87.448462 |
| 170.570632 | 1 | 1.632104 | 113.833824 |
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| 179.476131 | 1 | 1.257929 | 111.666145 |
| 189.979408 | 1 | 0.921853 | 118.951778 |
| 189.03342 | 1 | 1.683101 | 97.923913 |
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| 169.321577 | 1 | 1.118984 | 59.47328 |
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| 164.025771 | 1 | 3.495499 | 102.558022 |
| 194.542456 | 1 | 0.402743 | 103.759698 |
| 196.211561 | 1 | 1.479876 | 103.144595 |
| 173.385381 | 1 | 3.100036 | 102.006595 |
| 192.799364 | 1 | 4.820928 | 119.932429 |
| 187.004314 | 1 | 0.410391 | 98.094086 |
| 189.242467 | 1 | 1.53378 | 92.218005 |
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| 192.66003 | 1 | 0.550902 | 83.461362 |
| 175.663052 | 1 | 0.591594 | 112.62988 |
| 192.499709 | 1 | 0.296857 | 113.756778 |
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| 171.019376 | 1 | 3.237624 | 75.497121 |
| 210.157389 | 1 | 6.452419 | 108.019288 |
| 175.731025 | 1 | 4.793188 | 80.945836 |
| 175.842211 | 1 | 0.794022 | 59.897832 |
| 186.701498 | 1 | 0.178302 | 67.955591 |
| 176.886254 | 1 | 5.914448 | 92.008509 |
| 162.60646 | 1 | 0.902859 | 103.142259 |
| 180.495527 | 1 | 1.114172 | 103.430216 |
| 189.004702 | 1 | 0.155318 | 108.933398 |
| 188.958887 | 1 | 0.893186 | 80.740927 |
| 177.447719 | 1 | 1.678248 | 96.453073 |
| 184.475191 | 1 | 0.757615 | 96.096852 |
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| 184.470962 | 1 | 0.904805 | 102.575484 |
| 180.82905 | 1 | 1.933754 | 117.44088 |
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| 182.837078 | 1 | 1.065312 | 122.718245 |
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| 195.91693 | 1 | 0.23301 | 112.300859 |
| 209.05872 | 1 | 3.617143 | 81.982319 |
| 161.672227 | 1 | 0.382469 | 101.382949 |
| 181.380965 | 1 | 0.081151 | 122.457948 |
| 196.806189 | 1 | 0.743614 | 113.2678 |
| 189.645146 | 1 | 1.44146 | 92.836399 |
| 181.956619 | 1 | 18.679166 | 115.40202 |
| 191.531529 | 1 | 0.290289 | 87.771275 |
| 190.166173 | 1 | 0.132674 | 99.989103 |

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| 178.931969 | 1 | 1.861758 | 92.67651 |
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| 169.992853 | 1 | 1.385222 | 93.699453 |
| 168.455079 | 1 | 0.918956 | 89.340461 |
| 154.831735 | 1 | 0.521757 | 126.806947 |
| 168.022773 | 1 | 0.86451 | 103.169237 |
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| 192.065448 | 1 | 6.396967 | 106.975097 |
| 175.59825 | 1 | 1.501112 | 103.601241 |
| 167.402771 | 1 | 0.413052 | 110.806298 |
| 161.267774 | 1 | 1.715112 | 100.96972 |
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| 176.282031 | 1 | 1.579211 | 84.271619 |
| 189.71113 | 1 | 0.397156 | 93.106621 |
| 173.57367 | 1 | 5.061835 | 98.614749 |
| 190.274493 | 1 | 0.451846 | 97.653623 |
| 183.01352 | 1 | 10.771957 | 105.120853 |
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| 186.224491 | 1 | 1.854694 | 117.517789 |
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| 178.244948 | 1 | 0.263954 | 83.73878 |
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| 174.596362 | 1 | 6.050413 | 130.158071 |
| 188.22738 | 1 | 0.291434 | 82.919553 |
| 179.019633 | 1 | 1.937623 | 105.297574 |
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| 171.57244 | 1 | 0.340959 | 106.838604 |
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| 180.675618 | 1 | 8.208208 | 93.041513 |
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| 178.135308 | 1 | 0.17673 | 104.076713 |
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| 194.925172 | 1 | 1.978546 | 105.923999 |
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| 184.012259 | 1 | 0.638293 | 75.294531 |
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| 190.644658 | 1 | 0.428879 | 118.01294 |
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| 190.520102 | 1 | 0.477309 | 120.527887 |
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| 174.738346 | 1 | 15.178229 | 80.974076 |
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| 193.022941 | 1 | 0.45194 | 94.193684 |
| 181.779131 | 1 | 0.998356 | 93.560061 |
| 167.918682 | 1 | 0.313479 | 93.711987 |
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| 163.526686 | 1 | 0.980344 | 93.442839 |
| 196.38773 | 1 | 0.17008 | 86.451576 |
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| 173.586835 | 1 | 0.946348 | 94.307291 |
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| 197.660022 | 1 | 11.848564 | 107.64187 |
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| 180.899684 | 1 | 0.950344 | 97.397725 |
| 169.451908 | 1 | 7.853438 | 114.716352 |
| 179.672912 | 1 | 0.548739 | 106.572304 |
| 158.097185 | 1 | 0.798585 | 101.672458 |
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| 179.407169 | 1 | 1.940762 | 95.926851 |
| 173.442407 | 1 | 2.573033 | 84.804526 |
| 173.648726 | 1 | 1.110578 | 117.66615 |
| 170.153128 | 1 | 0.827949 | 102.469585 |
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| 188.961183 | 1 | 0.441633 | 104.701945 |
| 164.270335 | 1 | 0.996449 | 67.865006 |
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| 175.306416 | 1 | 0.789043 | 109.458222 |
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| 186.597486 | 1 | 0.899186 | 88.174818 |
| 186.532014 | 1 | 0.262089 | 116.534443 |
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| 187.08078 | 1 | 1.605681 | 128.640488 |
| 189.756582 | 1 | 1.994313 | 87.62994 |
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| 187.826179 | 1 | 0.818641 | 91.324256 |
| 174.780467 | 1 | 0.146127 | 103.073092 |
| 172.113408 | 1 | 0.900709 | 85.994964 |
| 182.482 | 1 | 0.245986 | 122.255836 |
| 201.91955 | 1 | 6.173143 | 99.929435 |
| 199.218169 | 1 | 0.216984 | 98.007286 |
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| 191.29963 | 1 | 1.375546 | 79.603081 |
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| 184.995536 | 1 | 1.721809 | 69.49623 |

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| 172.498078 | 1 | 0.926178 | 86.375485 |
| 186.859386 | 1 | 3.686289 | 67.295844 |
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| 170.70817 | 1 | 2.514075 | 92.325456 |
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| 168.714853 | 1 | 0.286226 | 89.996525 |
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| 174.069958 | 1 | 4.945701 | 75.285596 |
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| 172.674293 | 1 | 0.643273 | 90.530591 |
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| 196.749891 | 1 | 0.740587 | 115.932642 |
| 167.438241 | 1 | 1.317311 | 103.222067 |
| 180.951161 | 1 | 3.99763 | 101.638983 |
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| 172.343101 | 1 | 0.538024 | 75.91874 |
| 177.135046 | 1 | 0.372721 | 91.477068 |
| 195.91693 | 1 | 4.091259 | 109.751193 |
| 190.540089 | 1 | 0.813161 | 126.767384 |
| 184.205378 | 1 | 2.43338 | 119.430388 |
| 174.144582 | 1 | 2.703165 | 105.541312 |
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| 173.301367 | 1 | 0.291958 | 89.626542 |
| 187.431163 | 1 | 0.570731 | 94.129308 |
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| 166.841908 | 1 | 1.216875 | 110.124177 |
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| 169.935895 | 1 | 2.87642 | 111.329041 |
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| 171.376603 | 1 | 0.844785 | 93.219922 |
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| 187.704148 | 1 | 3.133706 | 121.257347 |
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| 171.356617 | 1 | 0.697663 | 94.943573 |
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| 169.172943 | 1 | 0.148944 | 93.935569 |
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| 139.460044 | 3 | | | |
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| 129.858179 | 3 | | | |
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| 136.936799 | 3 | | | |
| 140.173281 | 3 | | | |
| 130.719948 | 3 | | | |

133.936274

3



| skupina | Před | Po | výška | váha | Pohlavi |
|---------|------------|------------|------------|-----------|---------|
| 1 | 106.562345 | 120.661649 | 144.132076 | 49.801555 | muz |
| 1 | 96.644431 | 107.811381 | 153.550121 | 55.967315 | zena |
| 1 | 98.549492 | 114.282264 | 155.459023 | 60.706482 | muz |
| 1 | 93.991344 | 112.820764 | 155.528472 | 57.638998 | zena |
| 1 | 98.454336 | 117.049387 | 156.334993 | 58.98204 | zena |
| 1 | 77.664629 | 97.864028 | 157.979883 | 61.547306 | zena |
| 1 | 98.664589 | 107.113826 | 164.155074 | 63.191099 | zena |
| 1 | 86.708008 | 101.005464 | 155.178907 | 60.733367 | muz |
| 1 | 101.565797 | 119.850865 | 154.945049 | 61.369841 | muz |
| 1 | 105.030233 | 116.770131 | 161.511201 | 57.630212 | muz |
| 1 | 113.170848 | 126.100235 | 158.314031 | 68.098751 | zena |
| 1 | 93.807046 | 103.735749 | 158.248961 | 62.54046 | muz |
| 1 | 92.520361 | 101.979628 | 160.181465 | 67.449726 | muz |
| 1 | 101.46365 | 113.530761 | 158.073733 | 59.194889 | zena |
| 1 | 97.6857 | 110.365179 | 162.307027 | 65.181542 | muz |
| 1 | 97.916893 | 106.5631 | 152.068726 | 66.297215 | muz |
| 1 | 115.772002 | 129.068228 | 153.035119 | 67.82196 | muz |
| 1 | 100.376849 | 114.164706 | 162.886366 | 67.772351 | muz |
| 1 | 98.540216 | 113.944775 | 163.833859 | 62.907755 | zena |
| 1 | 118.303217 | 132.206738 | 160.751127 | 69.769411 | zena |
| 1 | 93.692654 | 107.711682 | 164.961905 | 66.203619 | muz |
| 1 | 112.711371 | 126.600649 | 165.207087 | 69.472133 | muz |
| 1 | 99.846614 | 118.874538 | 165.128852 | 54.432483 | muz |
| 1 | 99.355828 | 114.099974 | 159.96078 | 65.649673 | zena |
| 1 | 116.101558 | 130.543085 | 161.380142 | 66.742376 | muz |
| 1 | 103.626315 | 117.086692 | 157.199022 | 70.240111 | zena |
| 1 | 104.370588 | 125.287224 | 166.108942 | 64.692802 | zena |
| 1 | 97.648752 | 115.24577 | 169.157004 | 68.378011 | zena |
| 1 | 106.833272 | 128.960237 | 162.120667 | 70.039531 | muz |
| 1 | 99.31365 | 112.34893 | 160.628554 | 67.304921 | muz |
| 1 | 92.639232 | 112.623599 | 168.365616 | 66.835263 | muz |
| 1 | 89.024673 | 99.18748 | 168.005547 | 66.805877 | muz |
| 1 | 102.037007 | 118.653852 | 165.579325 | 62.501902 | zena |
| 1 | 90.18662 | 107.893195 | 163.742991 | 71.486037 | muz |
| 1 | 119.395793 | 140.15254 | 156.545923 | 66.265446 | muz |
| 1 | 98.727844 | 113.474293 | 162.151717 | 69.072492 | muz |
| 1 | 84.123679 | 97.552293 | 162.22183 | 64.773752 | zena |
| 1 | 96.646852 | 113.672267 | 163.356361 | 65.023431 | zena |
| 1 | 109.572318 | 123.428347 | 160.110583 | 71.12946 | zena |
| 1 | 96.1703 | 113.443134 | 156.64383 | 68.367607 | zena |
| 1 | 93.461358 | 104.128798 | 158.740652 | 64.025388 | zena |
| 1 | 86.336161 | 98.794448 | 165.524419 | 62.137204 | muz |
| 1 | 103.161153 | 113.59644 | 166.461789 | 65.67527 | muz |
| 1 | 98.36291 | 112.274278 | 158.810583 | 65.252323 | zena |
| 1 | 105.712536 | 120.615099 | 165.771665 | 68.061389 | zena |
| 1 | 93.626261 | 108.710612 | 167.657366 | 59.941802 | zena |
| 1 | 96.538224 | 110.570076 | 166.442117 | 71.728335 | muz |
| 1 | 102.859383 | 124.442888 | 162.286558 | 67.95837 | zena |
| 1 | 96.689712 | 106.462264 | 158.616152 | 67.918289 | muz |

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|---|------------|------------|------------|-----------|------|
| 1 | 102.122215 | 114.912784 | 162.961403 | 70.76709 | muz |
| 1 | 75.261744 | 82.529002 | 159.602389 | 61.159252 | muz |
| 1 | 99.311353 | 118.654363 | 157.521275 | 70.24323 | zena |
| 1 | 102.468596 | 113.629305 | 159.473105 | 72.14984 | muz |
| 1 | 121.164942 | 134.204202 | 156.502859 | 73.807749 | zena |
| 1 | 84.747683 | 102.020824 | 162.368736 | 66.492192 | muz |
| 1 | 84.413671 | 100.813806 | 163.703456 | 79.201835 | zena |
| 1 | 76.952313 | 94.576139 | 165.032982 | 70.307259 | zena |
| 1 | 111.722523 | 128.509748 | 160.64628 | 64.564418 | zena |
| 1 | 123.743632 | 134.628083 | 168.720256 | 69.288843 | zena |
| 1 | 96.100246 | 107.75303 | 164.1107 | 66.582105 | muz |
| 1 | 89.991602 | 107.073585 | 162.407353 | 66.738874 | zena |
| 1 | 105.479933 | 121.447842 | 158.438364 | 62.100988 | muz |
| 1 | 106.58988 | 118.770367 | 164.722199 | 65.486728 | muz |
| 1 | 91.479331 | 105.756487 | 165.210361 | 68.477119 | zena |
| 1 | 108.092911 | 123.487518 | 166.449516 | 67.602048 | muz |
| 1 | 106.602249 | 123.275642 | 172.371777 | 69.143437 | zena |
| 1 | 97.925488 | 113.341633 | 162.8 | 69.382557 | muz |
| 1 | 84.51849 | 96.785606 | 170.217311 | 76.015875 | zena |
| 1 | 110.127769 | 130.782307 | 164.268711 | 69.613701 | zena |
| 1 | 107.634344 | 124.095938 | 171.726509 | 73.613436 | zena |
| 1 | 96.495148 | 111.711865 | 168.707768 | 70.584527 | muz |
| 1 | 93.092138 | 110.581661 | 165.255413 | 72.635074 | zena |
| 1 | 108.626716 | 126.21274 | 166.340949 | 63.79866 | muz |
| 1 | 103.468278 | 116.558684 | 164.327023 | 72.232195 | muz |
| 1 | 105.562788 | 117.793213 | 168.337504 | 74.244147 | muz |
| 1 | 120.858897 | 139.192464 | 161.702513 | 74.165985 | zena |
| 1 | 102.733691 | 114.130155 | 165.694667 | 75.815227 | muz |
| 1 | 88.933405 | 99.256729 | 168.507229 | 68.14277 | muz |
| 1 | 104.796323 | 121.930297 | 167.701422 | 61.027339 | muz |
| 1 | 87.714614 | 104.629832 | 168.278578 | 66.667029 | zena |
| 1 | 105.655897 | 127.272963 | 169.723619 | 73.408722 | zena |
| 1 | 98.434976 | 117.76624 | 162.485378 | 72.440165 | muz |
| 1 | 102.988713 | 121.900425 | 166.995535 | 70.366326 | muz |
| 1 | 103.570824 | 118.909705 | 170.364386 | 70.244485 | muz |
| 1 | 101.313038 | 116.31889 | 164.376518 | 65.137509 | zena |
| 1 | 97.280611 | 113.641715 | 167.902802 | 67.730042 | muz |
| 1 | 86.526336 | 101.449792 | 163.832058 | 68.328121 | muz |
| 1 | 121.208234 | 133.044209 | 166.591301 | 75.098895 | zena |
| 1 | 115.976957 | 125.652539 | 167.339224 | 70.762515 | muz |
| 1 | 110.488225 | 127.973219 | 167.055485 | 73.507511 | muz |
| 1 | 85.220029 | 101.552702 | 171.105642 | 74.92671 | zena |
| 1 | 88.826926 | 105.680644 | 173.151141 | 79.719428 | zena |
| 1 | 105.326774 | 120.967194 | 163.865537 | 66.910964 | zena |
| 1 | 100.735429 | 112.654636 | 165.784284 | 71.258636 | muz |
| 1 | 99.910119 | 118.624705 | 167.523765 | 68.880616 | zena |
| 1 | 101.612284 | 115.678644 | 164.974552 | 74.573025 | muz |
| 1 | 81.183009 | 93.663244 | 174.859154 | 71.555649 | zena |
| 1 | 97.432701 | 109.969317 | 168.925251 | 71.658827 | zena |
| 1 | 90.620631 | 104.333653 | 168.903837 | 72.454476 | muz |

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| 1 | 90.024367 | 103.664282 | 160.956482 | 69.296969 | zena |
| 1 | | | 174.216 | 77.339508 | zena |
| 1 | | | 165.230643 | 73.333038 | muz |
| 1 | | | 163.698499 | 67.931213 | zena |
| 1 | | | 172.59684 | 69.407186 | muz |
| 1 | | | 168.681361 | 72.564865 | muz |
| 1 | | | 167.435199 | 77.717931 | muz |
| 1 | | | 159.364043 | 69.665842 | zena |
| 1 | | | 167.971378 | 68.649568 | muz |
| 1 | | | 172.071539 | 68.667799 | muz |
| 1 | | | 164.878618 | 75.908891 | muz |
| 1 | | | 162.130794 | 71.136709 | muz |
| 1 | | | 165.154227 | 68.792541 | zena |
| 1 | | | 166.236353 | 74.60719 | zena |
| 1 | | | 168.360146 | 73.956897 | zena |
| 1 | | | 166.899625 | 70.200839 | zena |
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| 1 | | | 172.61755 | 77.334178 | zena |
| 1 | | | 166.553903 | 76.39101 | muz |
| 1 | | | 175.362641 | 74.037979 | zena |
| 1 | | | 173.157635 | 81.348638 | zena |
| 1 | | | 171.433397 | 75.822239 | muz |
| 1 | | | 161.409564 | 77.160492 | muz |
| 1 | | | 170.896067 | 76.854374 | zena |
| 1 | | | 172.613871 | 72.89528 | zena |
| 1 | | | 169.578282 | 64.338704 | zena |
| 1 | | | 166.733555 | 75.499796 | muz |
| 1 | | | 163.156226 | 78.797564 | zena |
| 1 | | | 170.915121 | 76.016962 | muz |
| 1 | | | 171.314194 | 74.90495 | zena |
| 1 | | | 168.947707 | 78.805773 | muz |
| 1 | | | 162.944578 | 80.881194 | muz |
| 1 | | | 174.101768 | 73.242475 | muz |
| 1 | | | 167.544938 | 74.309276 | muz |
| 1 | | | 169.501862 | 65.029065 | zena |
| 1 | | | 163.052412 | 71.756543 | zena |
| 1 | | | 165.959748 | 64.511463 | muz |
| 1 | | | 170.687315 | 71.546154 | muz |
| 1 | | | 167.69747 | 77.634662 | zena |
| 1 | | | 167.487363 | 78.176839 | muz |
| 1 | | | 165.514705 | 69.147039 | zena |
| 1 | | | 171.955365 | 74.026351 | muz |
| 1 | | | 165.267641 | 75.888396 | muz |
| 1 | | | 173.257343 | 77.738894 | muz |
| 1 | | | 171.932978 | 75.655756 | muz |
| 1 | | | 175.251219 | 78.812789 | zena |
| 1 | | | 164.093047 | 69.316482 | muz |
| 1 | | | 173.326251 | 75.48674 | muz |
| 1 | | | 169.062221 | 71.689927 | zena |

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| 1 | 176.258816 | 76.991886 | muz |
| 1 | 165.267496 | 78.36007 | zena |
| 1 | 173.504057 | 79.971799 | muz |
| 1 | 174.442678 | 76.971176 | muz |
| 1 | 167.876795 | 77.271623 | muz |
| 1 | 171.961045 | 76.535042 | muz |
| 1 | 168.962945 | 78.561405 | muz |
| 1 | 166.078146 | 79.832451 | muz |
| 1 | 166.615067 | 68.603761 | muz |
| 1 | 173.787746 | 75.839697 | muz |
| 1 | 169.099838 | 72.50066 | muz |
| 1 | 174.175437 | 77.3613 | zena |
| 1 | 173.459469 | 78.606853 | zena |
| 1 | 167.891165 | 74.993912 | zena |
| 1 | 179.806359 | 71.208068 | zena |
| 1 | 169.390226 | 76.356672 | zena |
| 1 | 158.468668 | 73.698232 | muz |
| 1 | 171.625937 | 76.934801 | zena |
| 1 | 166.508142 | 85.328409 | muz |
| 1 | 164.257101 | 77.591115 | zena |
| 1 | 179.407491 | 72.181509 | zena |
| 1 | 171.448381 | 74.450225 | zena |
| 1 | 169.45179 | 78.196711 | zena |
| 1 | 160.329922 | 74.566936 | muz |
| 1 | 173.426909 | 78.0187 | muz |
| 1 | 171.717823 | 83.979733 | zena |
| 1 | 171.223117 | 73.585928 | zena |
| 1 | 172.892936 | 72.477681 | zena |
| 1 | 166.891426 | 80.317228 | zena |
| 1 | 178.795765 | 69.181668 | zena |
| 1 | 165.339114 | 79.531186 | muz |
| 1 | 172.322782 | 71.643643 | zena |
| 1 | 168.665086 | 72.387405 | zena |
| 1 | 170.591846 | 72.777364 | zena |
| 1 | 170.584906 | 75.899546 | zena |
| 1 | 171.893105 | 84.543766 | zena |
| 1 | 165.043796 | 72.125771 | muz |
| 1 | 166.617399 | 78.235815 | zena |
| 1 | 168.311579 | 76.866134 | zena |
| 1 | 169.882594 | 82.904001 | muz |
| 1 | 173.591723 | 73.255649 | zena |
| 1 | 171.019899 | 80.146004 | muz |
| 1 | 166.672574 | 80.230296 | muz |
| 1 | 181.639742 | 68.967182 | zena |
| 1 | 165.674744 | 82.011437 | zena |
| 1 | 169.695948 | 75.596993 | muz |
| 1 | 173.955917 | 86.352487 | zena |
| 1 | 176.319743 | 78.044589 | muz |
| 1 | 167.574779 | 73.197808 | zena |
| 1 | 172.280477 | 73.979926 | zena |

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| 1 | 174.461027 | 76.202887 | muz |
| 1 | 172.453268 | 77.649716 | zena |
| 1 | 169.019534 | 74.968237 | zena |
| 1 | 171.649393 | 73.162531 | zena |
| 1 | 171.683458 | 69.947262 | zena |
| 1 | 167.840333 | 74.933899 | muz |
| 1 | 178.520198 | 77.474673 | zena |
| 1 | 173.364154 | 76.38161 | muz |
| 1 | 164.748056 | 79.120676 | muz |
| 1 | 175.510839 | 75.054953 | muz |
| 1 | 177.258251 | 72.514143 | zena |
| 1 | 172.036292 | 78.965585 | zena |
| 1 | 174.427592 | 79.026962 | muz |
| 1 | 169.24508 | 75.252691 | zena |
| 1 | 172.085025 | 76.19188 | muz |
| 1 | 178.001185 | 81.849015 | zena |
| 1 | 174.508839 | 78.945512 | muz |
| 1 | 179.690444 | 80.672156 | muz |
| 1 | 174.017776 | 81.182269 | zena |
| 1 | 173.917804 | 72.991919 | zena |
| 1 | 172.136877 | 71.18553 | muz |
| 1 | 162.893887 | 84.849947 | zena |
| 1 | 180.142277 | 81.985462 | zena |
| 1 | 170.31864 | 78.695312 | zena |
| 1 | 172.384646 | 80.656744 | zena |
| 1 | 173.1723 | 82.243758 | muz |
| 1 | 172.57871 | 73.912668 | zena |
| 1 | 169.152484 | 78.997199 | muz |
| 1 | 169.013672 | 75.705151 | zena |
| 1 | 165.196719 | 80.118553 | muz |
| 1 | 166.780972 | 72.817091 | muz |
| 1 | 169.205453 | 76.814545 | muz |
| 1 | 178.147377 | 77.481762 | zena |
| 1 | 167.866627 | 75.081151 | zena |
| 1 | 163.520347 | 77.522326 | muz |
| 1 | 181.566741 | 73.358522 | zena |
| 1 | 171.647446 | 78.648057 | muz |
| 1 | 177.038999 | 73.055979 | zena |
| 1 | 168.461118 | 80.56539 | zena |
| 1 | 167.553992 | 69.858559 | muz |
| 1 | 169.431626 | 72.939159 | muz |
| 1 | 171.868672 | 73.434083 | muz |
| 1 | 171.815675 | 76.949708 | zena |
| 1 | 170.222484 | 71.090347 | muz |
| 1 | 174.072368 | 72.895749 | muz |
| 1 | 168.130521 | 75.303986 | muz |
| 1 | 171.547243 | 73.055554 | zena |
| 1 | 172.615694 | 81.663641 | muz |
| 1 | 176.236156 | 83.108108 | muz |
| 1 | 173.87961 | 75.009417 | zena |

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| 1 | 172.885996 | 79.417683 | zena |
| 1 | 175.201192 | 79.485374 | muz |
| 1 | 171.768652 | 81.269839 | zena |
| 1 | 176.491606 | 87.700808 | muz |
| 1 | 176.747329 | 73.640857 | zena |
| 1 | 177.282835 | 85.92024 | muz |
| 1 | 170.638985 | 71.781572 | muz |
| 1 | 178.182334 | 78.460208 | zena |
| 1 | 175.880166 | 82.275677 | zena |
| 1 | 171.929687 | 78.589281 | muz |
| 1 | 168.584932 | 74.054404 | muz |
| 1 | 176.85605 | 81.108997 | zena |
| 1 | 166.318317 | 80.345984 | muz |
| 1 | 176.366926 | 78.978618 | muz |
| 1 | 183.174637 | 83.931089 | zena |
| 1 | 175.140283 | 78.038709 | zena |
| 1 | 171.394961 | 79.349009 | zena |
| 1 | 177.891937 | 79.780937 | muz |
| 1 | 175.534463 | 77.005355 | muz |
| 1 | 173.366405 | 81.492754 | zena |
| 1 | 172.014095 | 80.378996 | muz |
| 1 | 169.891185 | 83.866506 | muz |
| 1 | 173.296829 | 78.10819 | zena |
| 1 | 174.663267 | 73.984482 | muz |
| 1 | 174.408474 | 78.822489 | muz |
| 1 | 175.417675 | 82.982468 | muz |
| 1 | 173.017727 | 78.123588 | zena |
| 1 | 171.943191 | 75.44868 | muz |
| 1 | 176.393735 | 81.625615 | zena |
| 1 | 175.677804 | 85.963223 | zena |
| 1 | 171.215811 | 78.554 | zena |
| 1 | 180.513573 | 80.472253 | muz |
| 1 | 173.093832 | 79.21439 | muz |
| 1 | 174.982659 | 76.309319 | muz |
| 1 | 178.824587 | 78.369406 | zena |
| 1 | 178.051883 | 83.617398 | muz |
| 1 | 172.345713 | 80.765443 | muz |
| 1 | 169.370081 | 72.770277 | zena |
| 1 | 173.324072 | 79.839554 | muz |
| 1 | 178.724074 | 79.178879 | zena |
| 1 | 181.233648 | 77.616467 | zena |
| 1 | 172.689236 | 85.246896 | zena |
| 1 | 170.2428 | 71.343994 | zena |
| 1 | 174.146265 | 77.656967 | muz |
| 1 | 174.436735 | 73.888108 | zena |
| 1 | 168.819491 | 75.402159 | zena |
| 1 | 177.431155 | 79.887776 | zena |
| 1 | 168.165619 | 75.936822 | zena |
| 1 | 181.329986 | 82.002792 | zena |
| 1 | 168.757149 | 79.472541 | muz |

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| 1 | 178.961439 | 83.773374 | zena |
| 1 | 176.945653 | 85.663085 | muz |
| 1 | 176.502713 | 77.840744 | muz |
| 1 | 176.946508 | 75.891467 | zena |
| 1 | 175.617477 | 79.565355 | zena |
| 1 | 172.188832 | 91.338823 | muz |
| 1 | 187.32804 | 79.521104 | zena |
| 1 | 172.516587 | 76.746131 | zena |
| 1 | 177.838765 | 78.055387 | muz |
| 1 | 172.611999 | 76.873401 | muz |
| 1 | 176.761526 | 78.644453 | muz |
| 1 | 176.068434 | 78.797499 | muz |
| 1 | 170.488841 | 79.888078 | muz |
| 1 | 171.723771 | 82.710343 | zena |
| 1 | 169.678884 | 82.367331 | muz |
| 1 | 178.508567 | 82.195032 | zena |
| 1 | 167.232025 | 77.317789 | muz |
| 1 | 174.761845 | 76.911448 | muz |
| 1 | 177.837972 | 83.995336 | zena |
| 1 | 177.418149 | 89.702038 | zena |
| 1 | 175.205485 | 73.087175 | zena |
| 1 | 173.30732 | 82.668015 | zena |
| 1 | 168.870018 | 77.852415 | zena |
| 1 | 177.389386 | 78.948043 | muz |
| 1 | 180.049804 | 86.223514 | zena |
| 1 | 176.28817 | 86.840863 | zena |
| 1 | 171.444383 | 78.445388 | zena |
| 1 | 175.217377 | 84.157835 | zena |
| 1 | 175.60792 | 87.661982 | zena |
| 1 | 180.449154 | 84.731929 | zena |
| 1 | 174.279451 | 78.027616 | zena |
| 1 | 176.169024 | 78.13075 | zena |
| 1 | 174.150248 | 74.366038 | zena |
| 1 | 176.626682 | 77.606804 | muz |
| 1 | 175.430121 | 80.298224 | muz |
| 1 | 170.880137 | 70.363499 | muz |
| 1 | 179.278473 | 71.785183 | zena |
| 1 | 170.778401 | 84.701454 | zena |
| 1 | 180.055429 | 80.923461 | muz |
| 1 | 178.091239 | 85.590699 | zena |
| 1 | 172.372041 | 89.076801 | muz |
| 1 | 177.900593 | 77.379803 | zena |
| 1 | 175.076973 | 83.408157 | muz |
| 1 | 181.235371 | 75.976066 | zena |
| 1 | 179.919714 | 76.40477 | zena |
| 1 | 174.836885 | 81.330935 | muz |
| 1 | 178.523867 | 81.885113 | zena |
| 1 | 178.839889 | 77.728872 | zena |
| 1 | 177.326315 | 85.072782 | muz |
| 1 | 174.130353 | 80.415546 | zena |

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| 1 | 175.460926 | 83.000098 | muz |
| 1 | 179.161478 | 89.293265 | zena |
| 1 | 175.133978 | 78.340264 | zena |
| 1 | 179.892386 | 80.117028 | muz |
| 1 | 177.043155 | 80.494597 | muz |
| 1 | 169.368307 | 84.08101 | muz |
| 1 | 179.248412 | 77.639148 | zena |
| 1 | 184.6849 | 85.282803 | muz |
| 1 | 179.199308 | 85.261616 | zena |
| 1 | 180.733771 | 75.161762 | muz |
| 1 | 180.279479 | 84.117917 | zena |
| 1 | 176.929814 | 66.543426 | zena |
| 1 | 178.262583 | 81.824906 | zena |
| 1 | 174.257325 | 86.076332 | muz |
| 1 | 176.452027 | 78.920285 | muz |
| 1 | 174.763332 | 85.907421 | muz |
| 1 | 172.42154 | 80.297312 | muz |
| 1 | 173.27511 | 82.93675 | zena |
| 1 | 178.408296 | 83.660237 | zena |
| 1 | 177.06358 | 86.43435 | zena |
| 1 | 170.886381 | 87.530921 | muz |
| 1 | 177.178647 | 75.62697 | muz |
| 1 | 171.920406 | 87.778556 | zena |
| 1 | 176.766694 | 83.727712 | muz |
| 1 | 175.00229 | 78.408053 | zena |
| 1 | 178.603287 | 78.705687 | muz |
| 1 | 173.603778 | 80.351541 | muz |
| 1 | 174.626241 | 78.899978 | zena |
| 1 | 175.069195 | 83.027724 | muz |
| 1 | 185.558613 | 81.902588 | muz |
| 1 | 177.463124 | 79.166208 | zena |
| 1 | 174.799111 | 84.194042 | zena |
| 1 | 184.305343 | 86.435103 | zena |
| 1 | 184.074825 | 78.982397 | zena |
| 1 | 176.437023 | 84.34269 | muz |
| 1 | 179.389786 | 87.472668 | muz |
| 1 | 180.450593 | 84.132915 | zena |
| 1 | 184.532658 | 83.277517 | muz |
| 1 | 174.252303 | 82.279433 | muz |
| 1 | 179.328743 | 95.422996 | zena |
| 1 | 174.852915 | 88.416335 | muz |
| 1 | 178.49244 | 82.275595 | zena |
| 1 | 179.93966 | 80.636238 | muz |
| 1 | 174.49205 | 82.83468 | zena |
| 1 | 178.52444 | 78.339857 | muz |
| 1 | 175.226012 | 86.544929 | zena |
| 1 | 177.752404 | 78.445226 | zena |
| 1 | 177.57182 | 89.892147 | zena |
| 1 | 175.880003 | 77.397325 | zena |
| 1 | 176.808306 | 79.722384 | muz |

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| 1 | 174.370646 | 76.106379 | zena |
| 1 | 181.751741 | 85.24321 | zena |
| 1 | 173.720512 | 79.830091 | zena |
| 1 | 176.847755 | 82.932948 | zena |
| 1 | 181.993981 | 78.021911 | zena |
| 1 | 184.115911 | 78.272727 | muz |
| 1 | 183.179302 | 86.554038 | muz |
| 1 | 178.72653 | 86.626152 | muz |
| 1 | 177.340205 | 77.400722 | muz |
| 1 | 176.971392 | 81.335609 | muz |
| 1 | 176.594047 | 82.231075 | muz |
| 1 | 184.547492 | 87.045872 | muz |
| 1 | 177.031482 | 87.411425 | zena |
| 1 | 178.485657 | 75.990614 | muz |
| 1 | 185.111622 | 85.419905 | zena |
| 1 | 176.936008 | 90.940483 | zena |
| 1 | 175.528046 | 73.941865 | muz |
| 1 | 173.296533 | 75.637341 | muz |
| 1 | 178.192891 | 79.025518 | zena |
| 1 | 173.640843 | 90.558165 | muz |
| 1 | 178.277035 | 77.643288 | zena |
| 1 | 174.374871 | 80.043913 | muz |
| 1 | 181.456829 | 82.877562 | zena |
| 1 | 180.346058 | 86.211729 | muz |
| 1 | 180.215177 | 78.304868 | zena |
| 1 | 182.657898 | 85.139737 | muz |
| 1 | 178.878393 | 87.800637 | muz |
| 1 | 178.986295 | 80.471242 | muz |
| 1 | 179.088921 | 88.999367 | zena |
| 1 | 184.250446 | 82.430277 | zena |
| 1 | 181.809226 | 81.479899 | muz |
| 1 | 180.717603 | 79.137631 | muz |
| 1 | 182.072086 | 84.186102 | zena |
| 1 | 170.257011 | 81.635659 | zena |
| 1 | 176.688662 | 78.840263 | zena |
| 1 | 167.591279 | 84.659262 | muz |
| 1 | 180.359726 | 89.189078 | zena |
| 1 | 178.898841 | 85.977707 | zena |
| 1 | 182.916554 | 82.017542 | zena |
| 1 | 183.467155 | 78.930185 | zena |
| 1 | 175.788999 | 79.434406 | zena |
| 1 | 174.619579 | 86.733838 | zena |
| 1 | 174.963432 | 90.271586 | zena |
| 1 | 175.901139 | 78.516356 | zena |
| 1 | 182.79545 | 84.455681 | zena |
| 1 | 179.744618 | 80.041107 | muz |
| 1 | 176.727977 | 81.634656 | muz |
| 1 | 182.998734 | 83.920996 | muz |
| 1 | 172.238868 | 84.024731 | zena |
| 1 | 185.29968 | 86.534311 | zena |

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| 1 | 176.521315 | 77.714729 | zena |
| 1 | 175.928692 | 82.662849 | zena |
| 1 | 182.956667 | 83.487483 | zena |
| 1 | 171.790551 | 78.613487 | muz |
| 1 | 179.603092 | 91.977643 | zena |
| 1 | 179.609172 | 84.257254 | zena |
| 1 | 178.991796 | 81.930339 | zena |
| 1 | 175.086873 | 87.741017 | muz |
| 1 | 179.988815 | 84.538941 | muz |
| 1 | 175.742987 | 84.888614 | zena |
| 1 | 181.069038 | 77.596793 | zena |
| 1 | 181.247249 | 87.402521 | zena |
| 1 | 178.748251 | 82.006778 | muz |
| 1 | 179.845138 | 84.926704 | zena |
| 1 | 177.330606 | 85.099794 | zena |
| 1 | 183.495566 | 86.245207 | muz |
| 1 | 178.41318 | 82.36385 | zena |
| 1 | 188.683974 | 78.897482 | muz |
| 1 | 181.668741 | 78.205979 | zena |
| 1 | 174.190389 | 83.202288 | zena |
| 1 | 170.837086 | 78.405008 | muz |
| 1 | 176.920419 | 81.175143 | muz |
| 1 | 180.275993 | 81.241106 | muz |
| 1 | 180.435984 | 84.573092 | muz |
| 1 | 180.310465 | 77.477979 | zena |
| 1 | 178.866108 | 84.691722 | zena |
| 1 | 177.748978 | 85.035468 | muz |
| 1 | 175.498438 | 85.762789 | zena |
| 1 | 189.583794 | 80.58343 | zena |
| 1 | 179.908305 | 80.307126 | zena |
| 1 | 177.201771 | 85.200341 | zena |
| 1 | 184.520709 | 82.982552 | zena |
| 1 | 177.17538 | 87.394684 | muz |
| 1 | 188.194838 | 92.079639 | zena |
| 1 | 177.782897 | 85.598175 | muz |
| 1 | 177.058123 | 91.374455 | muz |
| 1 | 172.639978 | 85.760867 | muz |
| 1 | 176.842107 | 84.292468 | zena |
| 1 | 179.116026 | 79.937307 | zena |
| 1 | 181.463559 | 87.037871 | zena |
| 1 | 179.231718 | 82.245491 | zena |
| 1 | 177.806804 | 77.288037 | zena |
| 1 | 183.834029 | 84.768686 | zena |
| 1 | 177.110049 | 85.708001 | muz |
| 1 | 179.003774 | 79.014299 | zena |
| 1 | 187.819797 | 90.956358 | muz |
| 1 | 186.294354 | 84.051488 | muz |
| 1 | 186.753714 | 83.394208 | zena |
| 1 | 186.270593 | 89.163569 | muz |
| 1 | 175.442643 | 83.364624 | zena |

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| 1 | 173.491479 | 87.410225 | muz |
| 1 | 182.388142 | 90.521256 | zena |
| 1 | 178.848562 | 77.81114 | zena |
| 1 | 172.335402 | 83.558801 | muz |
| 1 | 186.79328 | 92.624035 | muz |
| 1 | 181.905578 | 76.916889 | zena |
| 1 | 176.059737 | 89.549197 | muz |
| 1 | 176.156621 | 78.997299 | zena |
| 1 | 178.032176 | 85.16935 | muz |
| 1 | 177.960585 | 87.833708 | muz |
| 1 | 176.864519 | 86.856642 | muz |
| 1 | 177.630964 | 82.140887 | muz |
| 1 | 185.234724 | 84.171662 | muz |
| 1 | 179.614063 | 84.392851 | muz |
| 1 | 178.441397 | 89.037702 | muz |
| 1 | 175.958165 | 83.371964 | muz |
| 1 | 186.24934 | 90.322295 | zena |
| 1 | 173.361062 | 91.742782 | zena |
| 1 | 183.43216 | 82.594978 | muz |
| 1 | 177.475447 | 83.342851 | muz |
| 1 | 176.219331 | 86.512694 | zena |
| 1 | 182.184706 | 84.34148 | muz |
| 1 | 180.393748 | 82.386331 | muz |
| 1 | 188.926977 | 81.681281 | zena |
| 1 | 185.165921 | 86.78595 | zena |
| 1 | 177.402797 | 95.74141 | zena |
| 1 | 185.279483 | 82.554114 | muz |
| 1 | 180.676255 | 85.697964 | muz |
| 1 | 178.878559 | 82.47738 | zena |
| 1 | 182.590614 | 95.69244 | muz |
| 1 | 174.432121 | 89.227236 | zena |
| 1 | 176.909532 | 83.425781 | muz |
| 1 | 182.095278 | 85.744606 | zena |
| 1 | 183.509113 | 89.004396 | zena |
| 1 | 175.152803 | 90.901106 | muz |
| 1 | 187.077581 | 88.756147 | muz |
| 1 | 177.409759 | 90.766906 | zena |
| 1 | 171.714885 | 90.408492 | muz |
| 1 | 175.086846 | 87.967254 | zena |
| 1 | 173.2745 | 79.665573 | zena |
| 1 | 171.736488 | 85.267114 | muz |
| 1 | 178.348376 | 86.95156 | muz |
| 1 | 177.756734 | 88.579948 | zena |
| 1 | 178.627675 | 81.156948 | muz |
| 1 | 177.965242 | 81.562001 | muz |
| 1 | 184.414221 | 89.37411 | muz |
| 1 | 186.03814 | 92.527551 | muz |
| 1 | 180.754826 | 87.36194 | zena |
| 1 | 182.291606 | 80.933306 | muz |
| 1 | 186.427388 | 95.156818 | muz |

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| 1 | 180.968814 | 84.826723 | muz |
| 1 | 182.165052 | 89.728054 | zena |
| 1 | 183.023624 | 89.133506 | muz |
| 1 | 177.664884 | 81.587328 | zena |
| 1 | 183.440023 | 88.978557 | zena |
| 1 | 180.56988 | 82.746827 | muz |
| 1 | 181.97685 | 82.582313 | zena |
| 1 | 181.924777 | 94.07612 | muz |
| 1 | 178.784388 | 80.81471 | zena |
| 1 | 177.779332 | 89.124768 | muz |
| 1 | 181.289163 | 80.935241 | zena |
| 1 | 177.299033 | 87.284446 | muz |
| 1 | 182.53355 | 86.320905 | zena |
| 1 | 186.737073 | 84.65893 | muz |
| 1 | 179.490533 | 85.215209 | zena |
| 1 | 185.521163 | 85.056416 | zena |
| 1 | 181.206608 | 77.374114 | muz |
| 1 | 180.253322 | 89.208202 | zena |
| 1 | 182.459897 | 86.186506 | muz |
| 1 | 177.333284 | 80.595119 | muz |
| 1 | 178.727328 | 78.119905 | muz |
| 1 | 184.582466 | 86.508467 | muz |
| 1 | 184.566341 | 90.836548 | zena |
| 1 | 183.853863 | 81.629322 | muz |
| 1 | 182.052259 | 79.688344 | zena |
| 1 | 181.48907 | 83.871813 | zena |
| 1 | 189.741116 | 90.449092 | muz |
| 1 | 173.783963 | 88.222081 | muz |
| 1 | 178.038538 | 94.263258 | zena |
| 1 | 184.757314 | 87.766405 | muz |
| 1 | 177.938164 | 86.088674 | muz |
| 1 | 183.61104 | 90.192126 | muz |
| 1 | 174.525247 | 83.151525 | muz |
| 1 | 187.903623 | 90.2211 | muz |
| 1 | 182.088796 | 87.395554 | muz |
| 1 | 177.572943 | 87.431098 | muz |
| 1 | 185.845 | 86.535441 | zena |
| 1 | 185.389702 | 90.711879 | zena |
| 1 | 182.723862 | 85.568339 | zena |
| 1 | 182.051138 | 85.433502 | muz |
| 1 | 176.140075 | 87.986271 | muz |
| 1 | 183.657758 | 79.509785 | muz |
| 1 | 186.168762 | 96.654099 | muz |
| 1 | 180.262028 | 86.658227 | zena |
| 1 | 190.808308 | 85.376754 | muz |
| 1 | 178.404749 | 86.632934 | zena |
| 1 | 186.36433 | 89.717313 | muz |
| 1 | 187.669587 | 89.480478 | muz |
| 1 | 188.027541 | 85.871455 | muz |
| 1 | 177.42869 | 88.305449 | muz |

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| 1 | 185.064765 | 96.440497 | zena |
| 1 | 179.998402 | 90.77453 | muz |
| 1 | 177.114373 | 86.303172 | muz |
| 1 | 171.254626 | 90.304105 | muz |
| 1 | 183.660753 | 88.12788 | zena |
| 1 | 182.176109 | 91.917812 | zena |
| 1 | 185.073271 | 90.851127 | muz |
| 1 | 178.644007 | 95.096367 | muz |
| 1 | 181.335379 | 86.357425 | muz |
| 1 | 189.540206 | 85.514835 | muz |
| 1 | 188.500788 | 92.744377 | muz |
| 1 | 187.346223 | 86.257699 | zena |
| 1 | 180.973569 | 86.785347 | zena |
| 1 | 181.032618 | 91.048181 | zena |
| 1 | 183.320688 | 86.623725 | muz |
| 1 | 181.97243 | 95.667809 | muz |
| 1 | 182.863871 | 88.943344 | zena |
| 1 | 178.441599 | 86.824899 | zena |
| 1 | 179.458144 | 92.167137 | zena |
| 1 | 181.391172 | 84.521656 | zena |
| 1 | 182.699144 | 89.146743 | zena |
| 1 | 183.777388 | 88.576188 | zena |
| 1 | 176.794736 | 85.430152 | zena |
| 1 | 191.729849 | 91.523387 | muz |
| 1 | 181.082033 | 92.182784 | zena |
| 1 | 187.457797 | 80.415262 | zena |
| 1 | 182.71863 | 91.919668 | muz |
| 1 | 186.915898 | 79.600839 | muz |
| 1 | 189.842197 | 86.043074 | zena |
| 1 | 180.050704 | 89.756644 | zena |
| 1 | 179.397373 | 88.434216 | zena |
| 1 | 184.916883 | 89.167114 | muz |
| 1 | 186.941693 | 91.045534 | zena |
| 1 | 182.985657 | 88.914467 | zena |
| 1 | 188.191241 | 88.883483 | muz |
| 1 | 184.567733 | 93.410277 | zena |
| 1 | 184.85059 | 92.551366 | zena |
| 1 | 185.877828 | 87.021141 | muz |
| 1 | 185.359736 | 94.581834 | zena |
| 1 | 181.717069 | 92.492799 | muz |
| 1 | 188.390377 | 90.265701 | muz |
| 1 | 180.392195 | 88.698008 | muz |
| 1 | 185.635584 | 93.851762 | muz |
| 1 | 186.173045 | 91.259652 | zena |
| 1 | 186.446303 | 82.551249 | muz |
| 1 | 181.677902 | 86.405006 | muz |
| 1 | 179.155643 | 88.861846 | zena |
| 1 | 185.345214 | 86.592252 | zena |
| 1 | 189.103901 | 91.265495 | zena |
| 1 | 185.112938 | 93.74742 | zena |

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| 1 | 187.188191 | 93.824395 | muz |
| 1 | 181.892231 | 84.52578 | zena |
| 1 | 186.647488 | 77.407736 | zena |
| 1 | 184.546264 | 80.079791 | muz |
| 1 | 178.334449 | 88.211487 | muz |
| 1 | 190.183358 | 89.57582 | zena |
| 1 | 176.739382 | 88.468106 | muz |
| 1 | 181.95741 | 86.519779 | zena |
| 1 | 186.014852 | 92.777614 | zena |
| 1 | 186.804407 | 85.361347 | muz |
| 1 | 181.302151 | 87.401957 | muz |
| 1 | 180.679681 | 93.553384 | zena |
| 1 | 189.161322 | 92.871881 | muz |
| 1 | 187.692479 | 84.227525 | muz |
| 1 | 181.18951 | 93.567345 | muz |
| 1 | 183.861542 | 84.117713 | muz |
| 1 | 183.487339 | 88.18056 | zena |
| 1 | 181.084654 | 88.406735 | muz |
| 1 | 186.827013 | 88.197765 | muz |
| 1 | 189.125488 | 92.294434 | zena |
| 1 | 181.369237 | 83.087192 | zena |
| 1 | 182.432412 | 87.366476 | zena |
| 1 | 184.798708 | 88.897069 | muz |
| 1 | 178.463022 | 86.612011 | muz |
| 1 | 184.365759 | 87.524932 | muz |
| 1 | 179.97136 | 100.008027 | muz |
| 1 | 189.79715 | 93.277625 | zena |
| 1 | 180.544828 | 87.52134 | muz |
| 1 | 181.001708 | 91.607784 | muz |
| 1 | 188.09448 | 90.655979 | zena |
| 1 | 184.579406 | 90.111774 | zena |
| 1 | 187.219974 | 89.385145 | muz |
| 1 | 182.271399 | 90.145189 | muz |
| 1 | 190.737367 | 95.920658 | zena |
| 1 | 188.135175 | 95.087674 | muz |
| 1 | 185.155468 | 93.729787 | zena |
| 1 | 180.626778 | 101.79351 | zena |
| 1 | 186.749228 | 93.472989 | muz |
| 1 | 188.511761 | 90.07669 | muz |
| 1 | 189.241794 | 87.22366 | muz |
| 1 | 180.641617 | 86.572862 | zena |
| 1 | 189.057815 | 89.376884 | zena |
| 1 | 180.461264 | 89.540293 | muz |
| 1 | 186.711366 | 93.734139 | zena |
| 1 | 178.873004 | 87.35317 | muz |
| 1 | 179.374591 | 91.089504 | zena |
| 1 | 189.728569 | 89.418621 | zena |
| 1 | 189.576775 | 90.656902 | zena |
| 1 | 179.930192 | 83.123008 | muz |
| 1 | 187.30774 | 89.068334 | muz |

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| 1 | 188.052266 | 88.036521 | muz |
| 1 | 187.584465 | 86.060253 | muz |
| 1 | 185.702054 | 89.488847 | muz |
| 1 | 179.681863 | 95.903309 | muz |
| 1 | 186.633859 | 89.273143 | zena |
| 1 | 188.84459 | 93.136058 | zena |
| 1 | 179.340507 | 91.442806 | zena |
| 1 | 179.466766 | 97.318374 | muz |
| 1 | 183.792438 | 90.254637 | muz |
| 1 | 189.943747 | 92.327967 | muz |
| 1 | 182.274023 | 92.521801 | muz |
| 1 | 187.244771 | 94.012688 | muz |
| 1 | 182.787306 | 90.992458 | zena |
| 1 | 185.808806 | 93.953216 | zena |
| 1 | 191.398806 | 96.41743 | zena |
| 1 | 187.302201 | 89.715907 | muz |
| 1 | 191.138793 | 85.5634 | muz |
| 1 | 189.934324 | 95.741956 | zena |
| 1 | 185.373859 | 91.086752 | muz |
| 1 | 190.428744 | 85.837849 | zena |
| 1 | 187.322201 | 92.51083 | zena |
| 1 | 187.477067 | 89.433264 | zena |
| 1 | 192.586065 | 101.307918 | muz |
| 1 | 179.302877 | 95.310084 | muz |
| 1 | 178.979015 | 92.169701 | muz |
| 1 | 187.24544 | 92.910228 | muz |
| 1 | 189.62797 | 89.517947 | muz |
| 1 | 186.360224 | 90.299944 | muz |
| 1 | 178.895146 | 89.882831 | zena |
| 1 | 180.155774 | 87.656152 | muz |
| 1 | 182.421248 | 92.850138 | zena |
| 1 | 190.268409 | 89.720796 | zena |
| 1 | 186.090704 | 80.236456 | zena |
| 1 | 181.982303 | 88.260971 | zena |
| 1 | 189.641108 | 95.632994 | zena |
| 1 | 183.248952 | 88.062526 | zena |
| 1 | 191.721436 | 84.855731 | zena |
| 1 | 184.083254 | 91.983641 | zena |
| 1 | 193.372646 | 90.185466 | muz |
| 1 | 187.141011 | 98.174736 | zena |
| 1 | 184.608701 | 88.439095 | zena |
| 1 | 187.850854 | 102.75099 | muz |
| 1 | 190.974418 | 97.656137 | muz |
| 1 | 185.960992 | 95.571384 | zena |
| 1 | 189.142318 | 87.092875 | muz |
| 1 | 188.495267 | 96.052216 | zena |
| 1 | 189.919318 | 89.873668 | zena |
| 1 | 188.884308 | 96.54438 | zena |
| 1 | 185.120551 | 94.336532 | muz |
| 1 | 183.029206 | 96.028587 | zena |

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| 1 | 184.305639 | 89.044196 | muz |
| 1 | 190.961999 | 83.683456 | zena |
| 1 | 192.757873 | 90.889015 | muz |
| 1 | 186.390514 | 89.674794 | muz |
| 1 | 191.922032 | 91.069686 | zena |
| 1 | 186.588421 | 86.478231 | muz |
| 1 | 185.769646 | 89.89897 | zena |
| 1 | 186.439191 | 91.876694 | zena |
| 1 | 185.143975 | 91.540618 | muz |
| 1 | 187.564604 | 87.273459 | muz |
| 1 | 187.485714 | 93.470643 | muz |
| 1 | 184.968329 | 94.173541 | muz |
| 1 | 186.351088 | 94.077612 | zena |
| 1 | 188.218553 | 92.256599 | zena |
| 1 | 187.70619 | 91.603059 | zena |
| 1 | 187.790532 | 93.652025 | zena |
| 1 | 187.386943 | 83.398453 | zena |
| 1 | 189.510886 | 95.985705 | zena |
| 1 | 189.452983 | 98.503568 | zena |
| 1 | 184.715721 | 92.775475 | zena |
| 1 | 184.782896 | 92.344593 | muz |
| 1 | 187.906842 | 96.940206 | zena |
| 1 | 182.580837 | 94.857222 | muz |
| 1 | 191.798766 | 94.078026 | zena |
| 1 | 194.709155 | 92.881476 | muz |
| 1 | 192.548403 | 94.764367 | zena |
| 1 | 191.381921 | 94.316745 | muz |
| 1 | 190.954982 | 100.238188 | zena |
| 1 | 187.219528 | 90.11382 | zena |
| 1 | 188.11639 | 90.343661 | zena |
| 1 | 182.704842 | 92.591714 | zena |
| 1 | 187.385861 | 89.469184 | zena |
| 1 | 182.646784 | 86.092262 | zena |
| 1 | 186.800492 | 88.501468 | zena |
| 1 | 190.085682 | 89.366761 | zena |
| 1 | 192.394571 | 84.604079 | muz |
| 1 | 186.698233 | 97.438763 | muz |
| 1 | 193.536005 | 89.84546 | zena |
| 1 | 184.453577 | 90.884422 | zena |
| 1 | 190.45576 | 84.696538 | zena |
| 1 | 194.679899 | 92.386175 | zena |
| 1 | 185.077204 | 88.221203 | muz |
| 1 | 185.92509 | 101.204385 | muz |
| 1 | 186.715172 | 100.239011 | zena |
| 1 | 184.688195 | 94.16169 | muz |
| 1 | 191.016523 | 92.578919 | muz |
| 1 | 188.265674 | 99.037141 | zena |
| 1 | 187.236231 | 95.016206 | zena |
| 1 | 182.515544 | 85.739769 | muz |
| 1 | 196.437962 | 91.436253 | zena |

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| 1 | 187.516824 | 92.167996 | muz |
| 1 | 184.723083 | 95.921676 | muz |
| 1 | 189.444193 | 97.644086 | muz |
| 1 | 195.116352 | 88.502178 | muz |
| 1 | 194.042075 | 80.95354 | muz |
| 1 | 187.046215 | 97.316123 | zena |
| 1 | 189.224259 | 90.690863 | muz |
| 1 | 187.642775 | 92.454219 | muz |
| 1 | 192.428786 | 92.256594 | zena |
| 1 | 184.412714 | 94.693326 | muz |
| 1 | 183.229143 | 91.602741 | zena |
| 1 | 188.647212 | 85.78282 | zena |
| 1 | 187.017552 | 91.903535 | zena |
| 1 | 192.195569 | 89.97942 | zena |
| 1 | 190.693834 | 93.162688 | zena |
| 1 | 191.85615 | 89.580284 | muz |
| 1 | 183.314849 | 92.468211 | zena |
| 1 | 187.558474 | 96.514021 | zena |
| 1 | 187.983908 | 98.414078 | muz |
| 1 | 190.337449 | 84.183688 | zena |
| 1 | 191.349889 | 98.610197 | zena |
| 1 | 187.974954 | 97.091361 | muz |
| 1 | 188.341144 | 99.656562 | muz |
| 1 | 185.236016 | 101.107979 | zena |
| 1 | 194.320731 | 87.734919 | zena |
| 1 | 196.739205 | 89.999411 | muz |
| 1 | 191.720726 | 89.953217 | muz |
| 1 | 187.511562 | 92.956419 | muz |
| 1 | 193.061031 | 89.946605 | zena |
| 1 | 190.332787 | 94.294804 | muz |
| 1 | 189.000951 | 97.53708 | zena |
| 1 | 188.169077 | 93.425027 | zena |
| 1 | 184.37135 | 97.081641 | zena |
| 1 | 188.964907 | 95.127674 | muz |
| 1 | 189.025107 | 95.160725 | zena |
| 1 | 201.557498 | 95.581152 | muz |
| 1 | 193.477033 | 93.780871 | muz |
| 1 | 185.240822 | 94.130576 | zena |
| 1 | 191.867114 | 93.996553 | muz |
| 1 | 192.694691 | 102.452003 | muz |
| 1 | 190.007543 | 93.641073 | zena |
| 1 | 194.91278 | 96.067814 | zena |
| 1 | 193.536046 | 91.526529 | muz |
| 1 | 199.947779 | 86.265371 | zena |
| 1 | 193.673839 | 96.157763 | zena |
| 1 | 192.923902 | 97.636947 | muz |
| 1 | 191.941465 | 96.162551 | muz |
| 1 | 194.420048 | 96.494385 | zena |
| 1 | 195.209444 | 90.702532 | zena |
| 1 | 198.701553 | 87.812271 | muz |

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| 1 | 192.771507 | 89.455446 | zena |
| 1 | 190.835815 | 95.619492 | muz |
| 1 | 195.187957 | 96.329721 | zena |
| 1 | 191.328411 | 91.153682 | muz |
| 1 | 187.887943 | 89.647131 | zena |
| 1 | 190.493673 | 91.52477 | muz |
| 1 | 188.663678 | 94.994087 | muz |
| 1 | 193.489971 | 98.093731 | muz |
| 1 | 192.733876 | 90.743918 | muz |
| 1 | 187.297422 | 86.398844 | muz |
| 1 | 195.570395 | 92.21911 | muz |
| 1 | 187.239614 | 87.145389 | muz |
| 1 | 188.974012 | 99.338002 | zena |
| 1 | 188.752772 | 98.343297 | zena |
| 1 | 188.022271 | 92.088797 | muz |
| 1 | 197.762868 | 97.744517 | zena |
| 1 | 194.547359 | 101.685617 | zena |
| 1 | 194.614684 | 100.201358 | muz |
| 1 | 194.240118 | 101.995964 | muz |
| 1 | 192.157407 | 93.73144 | zena |
| 1 | 193.42064 | 92.944077 | muz |
| 1 | 190.148274 | 95.358144 | zena |
| 1 | 196.596396 | 99.501566 | muz |
| 1 | 196.939084 | 92.551935 | muz |
| 1 | 186.033788 | 102.75999 | zena |
| 1 | 193.896256 | 98.850231 | muz |
| 1 | 191.779166 | 93.870352 | zena |
| 1 | 184.90721 | 99.568823 | muz |
| 1 | 185.714219 | 96.255916 | muz |
| 1 | 184.396488 | 95.651202 | zena |
| 1 | 188.231996 | 98.348749 | muz |
| 1 | 196.297863 | 97.967162 | zena |
| 1 | 194.672814 | 94.803662 | zena |
| 1 | 195.42262 | 98.222943 | muz |
| 1 | 194.443299 | 97.597507 | zena |
| 1 | 195.183246 | 93.934089 | zena |
| 1 | 191.584984 | 100.5212 | muz |
| 1 | 195.37016 | 95.42677 | zena |
| 1 | 195.64586 | 99.350258 | muz |
| 1 | 196.893769 | 96.680681 | muz |
| 1 | 192.978417 | 97.043456 | zena |
| 1 | 191.788402 | 97.356541 | muz |
| 1 | 199.937434 | 98.309386 | muz |
| 1 | 194.327734 | 101.890972 | muz |
| 1 | 195.414589 | 95.037174 | muz |
| 1 | 198.031983 | 90.916718 | zena |
| 1 | 192.627916 | 100.307287 | muz |
| 1 | 195.172809 | 90.493994 | muz |
| 1 | 192.016317 | 94.957366 | zena |
| 1 | 191.135271 | 101.175072 | zena |

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| 1 | 194.209036 | 99.228931 | muz |
| 1 | 189.283685 | 100.999312 | muz |
| 1 | 199.659938 | 95.055419 | zena |
| 1 | 187.563522 | 104.789713 | muz |
| 1 | 194.405578 | 97.349346 | zena |
| 1 | 197.426264 | 98.425042 | zena |
| 1 | 190.658314 | 97.830369 | muz |
| 1 | 198.944511 | 94.70223 | zena |
| 1 | 202.389954 | 96.86128 | zena |
| 1 | 197.435887 | 101.379076 | zena |
| 1 | 186.739956 | 97.768396 | muz |
| 1 | 191.853663 | 93.690604 | muz |
| 1 | 193.518097 | 91.415785 | muz |
| 1 | 195.259957 | 100.082292 | muz |
| 1 | 194.02002 | 99.467373 | muz |
| 1 | 195.017736 | 98.77352 | zena |
| 1 | 201.406058 | 95.380645 | zena |
| 1 | 196.760987 | 106.255523 | zena |
| 1 | 200.084344 | 100.285218 | muz |
| 1 | 191.821858 | 94.259029 | muz |
| 1 | 189.366604 | 95.703184 | zena |
| 1 | 193.840172 | 97.425521 | zena |
| 1 | 193.1246 | 98.731328 | zena |
| 1 | 201.870082 | 101.83145 | muz |
| 1 | 192.96582 | 96.926527 | muz |
| 1 | 196.725435 | 99.48951 | zena |
| 1 | 202.602735 | 92.846993 | muz |
| 1 | 204.287074 | 92.885105 | zena |
| 1 | 190.621934 | 99.470606 | muz |
| 1 | 193.024837 | 102.782813 | muz |
| 1 | 196.995864 | 96.446609 | muz |
| 1 | 198.987048 | 93.570469 | muz |
| 1 | 191.834527 | 98.101471 | zena |
| 1 | 200.628513 | 97.515616 | zena |
| 1 | 192.040891 | 90.719953 | muz |
| 1 | 195.066234 | 100.761243 | zena |
| 1 | 195.964679 | 98.246472 | muz |
| 1 | 191.736138 | 100.516525 | muz |
| 1 | 190.800013 | 97.273922 | muz |
| 1 | 193.529889 | 93.428633 | zena |
| 1 | 189.913256 | 102.986122 | muz |
| 1 | 193.763574 | 97.325777 | muz |
| 1 | 200.041316 | 104.177305 | zena |
| 1 | 203.539023 | 101.395752 | muz |
| 1 | 197.124521 | 96.935499 | muz |
| 1 | 199.24298 | 101.126883 | muz |
| 1 | 197.889961 | 96.811971 | muz |
| 1 | 205.09345 | 95.86657 | zena |
| 1 | 196.240824 | 100.168835 | zena |
| 1 | 196.106283 | 90.134152 | zena |

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| 1 | 203.908797 | 107.518507 | muz |
| 1 | 197.898842 | 97.258979 | muz |
| 1 | 196.111503 | 99.495117 | muz |
| 1 | 194.228626 | 105.529751 | muz |
| 1 | 201.580008 | 101.033091 | muz |
| 1 | 203.599514 | 95.969934 | zena |
| 1 | 203.75823 | 103.516339 | zena |
| 1 | 194.319639 | 100.444875 | muz |
| 1 | 196.439158 | 102.332077 | muz |
| 1 | 200.491971 | 102.280304 | zena |
| 1 | 201.149244 | 101.212139 | zena |
| 1 | 191.151278 | 102.541879 | zena |
| 1 | 198.392257 | 102.52569 | zena |
| 1 | 197.643952 | 103.319834 | muz |
| 1 | 194.410252 | 96.672282 | muz |
| 1 | 203.279117 | 107.781405 | muz |
| 1 | 192.658402 | 100.882688 | muz |
| 1 | 196.786198 | 103.042656 | muz |
| 1 | 206.777398 | 98.430399 | zena |
| 1 | 192.833225 | 95.918029 | zena |
| 1 | 196.959398 | 102.029492 | muz |
| 1 | 197.081229 | 99.265006 | zena |
| 1 | 195.929791 | 100.416422 | muz |
| 1 | 193.948411 | 99.257666 | muz |
| 1 | 203.587836 | 101.159038 | zena |
| 1 | 194.771322 | 104.081754 | zena |
| 1 | 205.483296 | 111.814523 | zena |
| 1 | 201.35851 | 108.015727 | zena |
| 1 | 200.670473 | 100.471751 | zena |
| 1 | 197.790999 | 104.730205 | muz |
| 1 | 203.41254 | 104.20705 | muz |
| 1 | 197.575667 | 108.164112 | zena |
| 1 | 205.328682 | 103.705186 | muz |
| 1 | 195.666128 | 100.820597 | muz |
| 1 | 198.075298 | 102.692591 | zena |
| 1 | 207.918668 | 104.414242 | muz |
| 1 | 201.635501 | 109.648944 | zena |
| 1 | 200.981188 | 102.727261 | muz |
| 1 | 207.772712 | 105.278549 | muz |
| 1 | 202.960285 | 105.256266 | zena |
| 1 | 201.783408 | 100.848946 | muz |
| 1 | 207.57477 | 106.157598 | muz |
| 1 | 203.358562 | 105.421808 | muz |
| 1 | 201.614233 | 104.616473 | zena |
| 1 | 206.758007 | 106.777842 | muz |
| 1 | 204.022529 | 107.831173 | muz |
| 1 | 201.385158 | 109.170167 | zena |
| 1 | 206.925463 | 111.330499 | muz |
| 1 | 208.980617 | 108.580933 | muz |
| 1 | 206.517091 | 108.23728 | muz |

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