

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

asi normální

výška skupina 2

asi normální

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

výška skupina 1

Liliefors p:

0.200

výška skupina 2

skoro 1,000

Shapiro-Wilks p:

0.077

0.343

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

Transformace:

žádná

žádná

5. Navrhněte 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, Leukocyty, Tep1 a Tep2. Co usuzujete o jejich rozdělení?

r1	Leukocyty	Tep1
nebude normální	těžko říct	nenormální

r1	Leukocyty	Tep1
0.010	skoro 1,000	0.050
skoro 0,000	0.605	0.020

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

logaritmická	žádná	nemá smysl
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& výška skupina 2 a Tep1 & Tep2 a formulujte nulové a alternativní hypotézy.☐

nepárový t-test Tep1 × Tep2:

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

< 0,001 p hodnota:

jsou v řádcích náhodně).☐

< 0,001 p hodnota:

Tep2

nenormální

Tep2

0.010

0.002

nemá smysl

Wilcoxonův test

< 0,001

< 0,001

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

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

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

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

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



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

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
166.825514	158.749445	166.825514	1
170.645551	169.73198	170.645551	1
178.326462	172.288638	178.326462	1
169.388994	162.308798	169.388994	1
165.659406	172.726832	165.659406	1
158.367123	151.877337	158.367123	1
185.808261	165.343531	185.808261	1
176.611234	146.43666	176.611234	1
184.126116	157.332952	184.126116	1
159.51054	157.225791	159.51054	1
191.677002	153.572737	191.677002	1
160.513076	166.678533	160.513076	1
174.826874	159.85273	174.826874	1
170.236029	163.443915	170.236029	1
178.995031	161.33233	178.995031	1
181.347769	170.106078	181.347769	1
197.355433	149.028856	197.355433	1
174.934137	156.334441	174.934137	1
172.053756	148.31845	172.053756	1
172.532503	172.181908	172.532503	1
185.867219	172.198007	185.867219	1
192.839382	142.222289	192.839382	1
165.646537	159.456213	165.646537	1
189.692758	180.872358	189.692758	1
195.876321	141.672227	195.876321	1
173.331016	162.097181	173.331016	1
180.831346	149.551452	180.831346	1
171.716686	155.395046	171.716686	1
186.95552	149.923208	186.95552	1
182.392164	150.910055	182.392164	1
180.466423	152.324638	180.466423	1
169.702133	150.416791	169.702133	1
177.004079	157.393149	177.004079	1
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
187.586323	143.948601	187.586323	1
192.416604	159.484555	192.416604	1
168.304808	155.709231	168.304808	1
183.965056	157.086388	183.965056	1
162.188774	171.269276	162.188774	1
180.792966	161.185822	180.792966	1

190.062831	159.427098	190.062831	1
190.353938	152.890685	190.353938	1
181.051103	159.879515	181.051103	1
172.38305	139.073255	172.38305	1
185.784727	155.433291	185.784727	1
184.643255	139.900349	184.643255	1
187.287736	170.879444	187.287736	1
170.509605	165.191498	170.509605	1
185.966558	149.685216	185.966558	1
196.107151	155.44093	196.107151	1
182.342608	158.755607	182.342608	1
176.147244	173.417002	176.147244	1
182.487525	151.260643	182.487525	1
198.182072	155.949565	198.182072	1
155.991705	159.551187	155.991705	1
180.167915	143.367161	180.167915	1
178.769476	162.440208	178.769476	1
189.895439	148.064974	189.895439	1
192.360579	170.407689	192.360579	1
196.35558	172.690793	196.35558	1
161.80997	147.31605	161.80997	1
188.039956	164.187837	188.039956	1
183.668833	155.762846	183.668833	1
187.422091	148.792592	187.422091	1
184.839285	150.364586	184.839285	1
178.646058	164.660296	178.646058	1
196.593322	148.069658	196.593322	1
184.54379	171.846601	184.54379	1
179.688225	171.492943	179.688225	1
179.793818	179.004437	179.793818	1
179.475358	148.632021	179.475358	1
163.171801	168.625625	163.171801	1
184.432115	156.726058	184.432115	1
181.927788	153.16093	181.927788	1
186.507412	154.302766	186.507412	1
178.310955	160.878947	178.310955	1
188.256393	148.993886	188.256393	1
193.214662	158.857311	193.214662	1
199.023082	147.42137	199.023082	1
166.894454	174.793659	166.894454	1
186.200366	169.944233	186.200366	1
177.842565	154.865311	177.842565	1
172.579933	167.20122	172.579933	1
187.392896	142.423014	187.392896	1
203.317261	147.585034	203.317261	1
193.494582	149.002276	193.494582	1
181.797014	148.22716	181.797014	1
175.267092	150.242191	175.267092	1
177.618852	174.481066	177.618852	1
169.019079	168.155689	169.019079	1

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177.413727	176.509057	177.413727	1
186.394384	138.983578	186.394384	1
167.259412	163.779519	167.259412	1
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
177.732812	149.014873	177.732812	1
182.330808	148.47145	182.330808	1
175.808821	159.952183	175.808821	1
185.101549	154.270343	185.101549	1
195.769365	175.512023	195.769365	1
178.410192	153.104757	178.410192	1
169.764319	145.60138	169.764319	1
170.786796	149.009279	170.786796	1
187.297717	158.269027	187.297717	1
195.963269	152.458493	195.963269	1
173.681456	177.27667	173.681456	1
171.675656	158.702401	171.675656	1
190.227927	155.167605	190.227927	1
182.229524	189.947842	182.229524	1
184.491267	165.69903	184.491267	1
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174.207133	170.764029	174.207133	1
172.154062	154.020641	172.154062	1
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165.836803	167.493816	165.836803	1
191.194516	143.748421	191.194516	1
167.116894	158.15243	167.116894	1
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165.61434	153.903134	165.61434	1
169.016283	160.876639	169.016283	1
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200.372318	148.228683	200.372318	1
182.403181	164.672245	182.403181	1
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179.730312	176.443664	179.730312	1
177.614134	162.48674	177.614134	1
180.290356	179.027721	180.290356	1
161.480141	153.515257	161.480141	1
173.10088	162.404761	173.10088	1
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
179.152533	146.116927	179.152533	1
177.45246	181.016422	177.45246	1
176.050667	157.574764	176.050667	1
188.706911	173.749923	188.706911	1
177.162126	148.714853	177.162126	1
183.441482	160.119724	183.441482	1
187.971448	142.767395	187.971448	1
182.406341	168.087602	182.406341	1
163.705311	173.355157	163.705311	1
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186.502682	154.447035	186.502682	1
178.37687	154.769064	178.37687	1
163.505859	158.36059	163.505859	1
164.023043	159.035776	164.023043	1
171.873074	168.136499	171.873074	1
182.597358	178.335959	182.597358	1
173.878248	153.287952	173.878248	1
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188.634493	151.387699	188.634493	1
192.395139	142.56817	192.395139	1
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161.5519	160.519276	161.5519	1
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180.99036	156.838039	180.99036	1
182.709874	148.088348	182.709874	1
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159.254244	153.973006	159.254244	1
173.17638	138.997494	173.17638	1
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179.26381	153.520919	179.26381	1
177.59209	164.418621	177.59209	1
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188.379629	176.30624	188.379629	1
166.685771	156.609608	166.685771	1
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177.396321	157.328996	177.396321	1
170.651463	151.318759	170.651463	1
178.01139	167.413018	178.01139	1
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170.414381	153.095048	170.414381	1
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187.062113	162.46938	187.062113	1
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167.406181	142.609916	167.406181	1
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168.753802	158.13142	168.753802	1
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177.27504	179.009076	177.27504	1
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175.677331	164.012259	175.677331	1
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172.916264	166.32042	172.916264	1
185.8654	170.069175	185.8654	1
177.646387	151.958998	177.646387	1
185.280117	167.154699	185.280117	1
160.762368	159.64765	160.762368	1
168.895206	163.639389	168.895206	1
194.860279	154.882762	194.860279	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
185.029369	170.659483	185.029369	1
189.504811	165.484367	189.504811	1
172.310245	150.108313	172.310245	1
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199.232812	159.957549	199.232812	1
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167.106366	151.312075	167.106366	1
180.183991	167.009203	180.183991	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
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172.398375	166.013238	172.398375	1
175.590656	171.916336	175.590656	1
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189.979408	140.584107	189.979408	1
189.03342	172.201212	189.03342	1
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173.268784	154.431857	173.268784	1
182.86974	154.034351	182.86974	1
169.321577	146.878174	169.321577	1
185.373568	152.043263	185.373568	1
164.025771	172.16747	164.025771	1
194.542456	185.609916	194.542456	1
196.211561	147.907563	196.211561	1
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
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189.004702	161.621584	189.004702	1
188.958887	159.910881	188.958887	1
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184.475191	166.850678	184.475191	1
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189.645146	151.112873	189.645146	1
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190.166173	150.801984	190.166173	1

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169.992853	171.595716	169.992853	1
168.455079	169.236601	168.455079	1
154.831735	159.703527	154.831735	1
168.022773	160.826742	168.022773	1
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188.026223	147.444971	188.026223	1
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175.59825	153.635629	175.59825	1
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161.267774	167.18635	161.267774	1
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176.282031	167.681524	176.282031	1
189.71113	182.280074	189.71113	1
173.57367	151.87628	173.57367	1
190.274493	166.685241	190.274493	1
183.01352	168.16317	183.01352	1
188.970324	155.915505	188.970324	1
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174.596362	162.119862	174.596362	1
188.22738	169.850601	188.22738	1
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171.57244	159.144086	171.57244	1
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190.422173	152.521361	190.422173	1
170.613514	150.712877	170.613514	1
180.533066	152.764037	180.533066	1
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189.11657	165.605693	189.11657	1
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163.520775	165.068466	163.520775	1
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187.80957	155.517192	187.80957	1
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173.397751	179.590152	173.397751	1
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195.155138	150.771585	195.155138	1
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167.475189	149.521052	167.475189	1
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169.672187	160.560647	169.672187	1
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163.981797	161.821127	163.981797	1
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193.172667	169.840664	193.172667	1
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187.536437	160.509317	187.536437	1
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175.64792	149.517073	175.64792	1
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182.852198	154.013319	182.852198	1
169.7527	149.265962	169.7527	1
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171.470531	158.578858	171.470531	1
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167.20757	143.973521	167.20757	1
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178.665362	155.013127	178.665362	1
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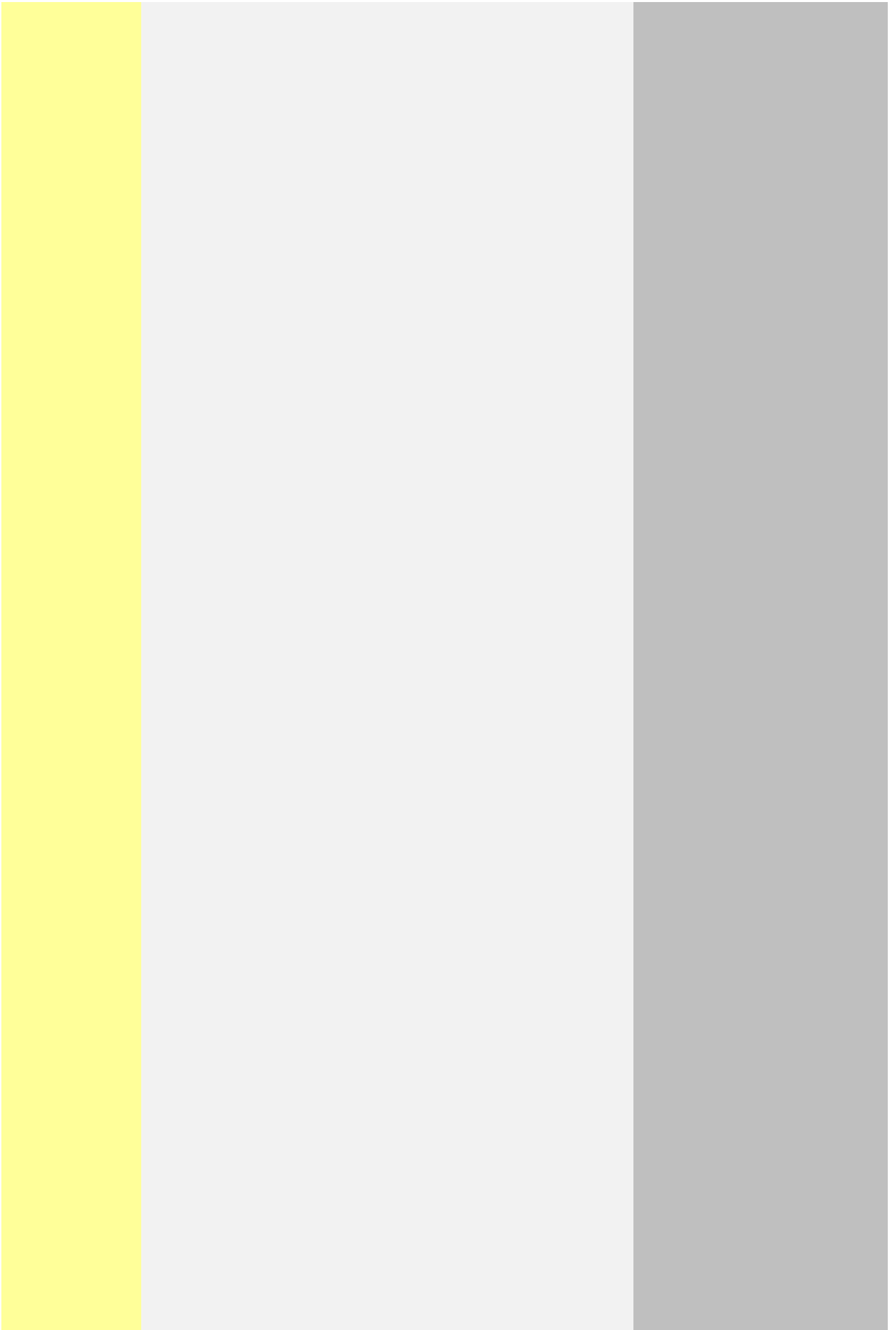


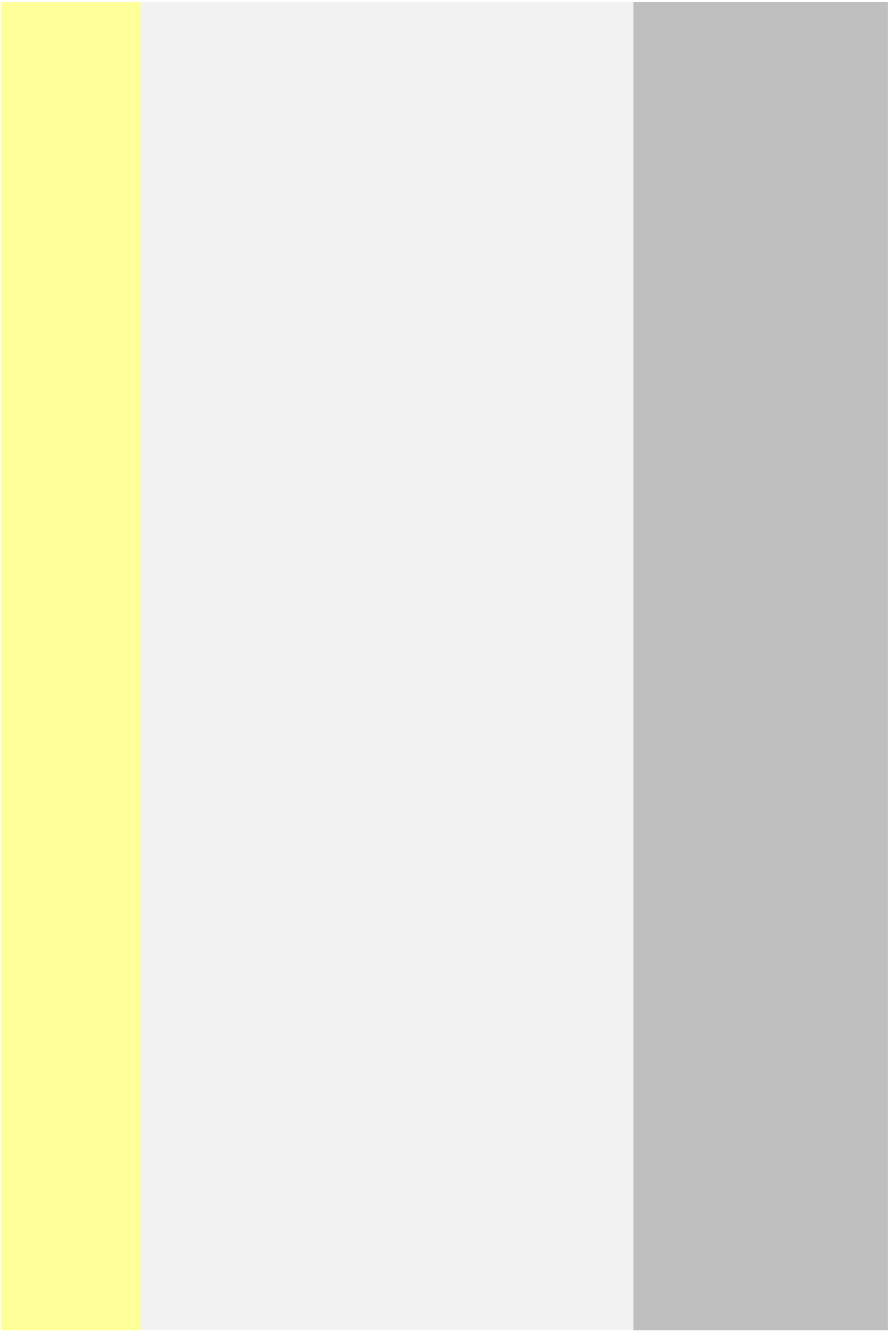
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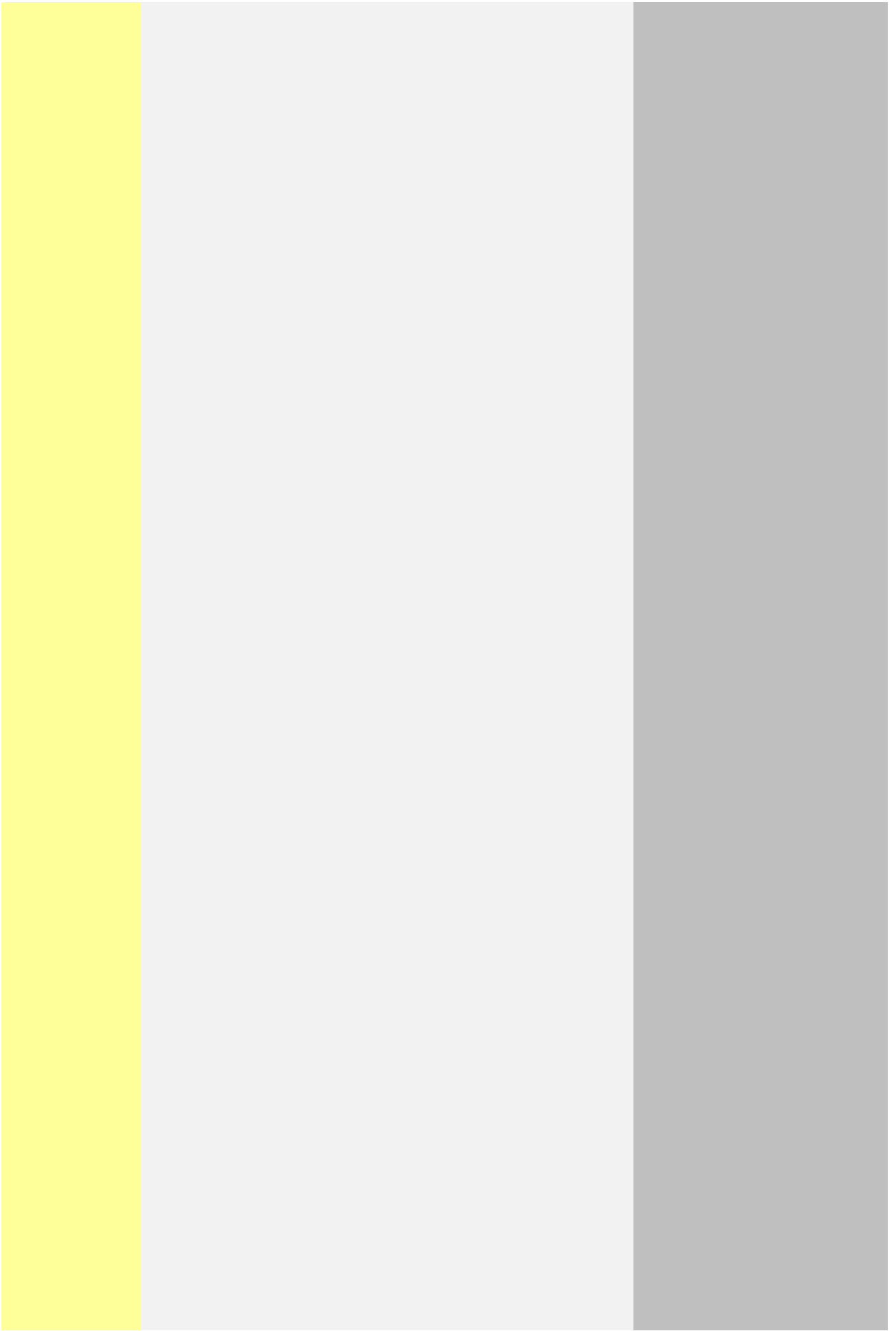
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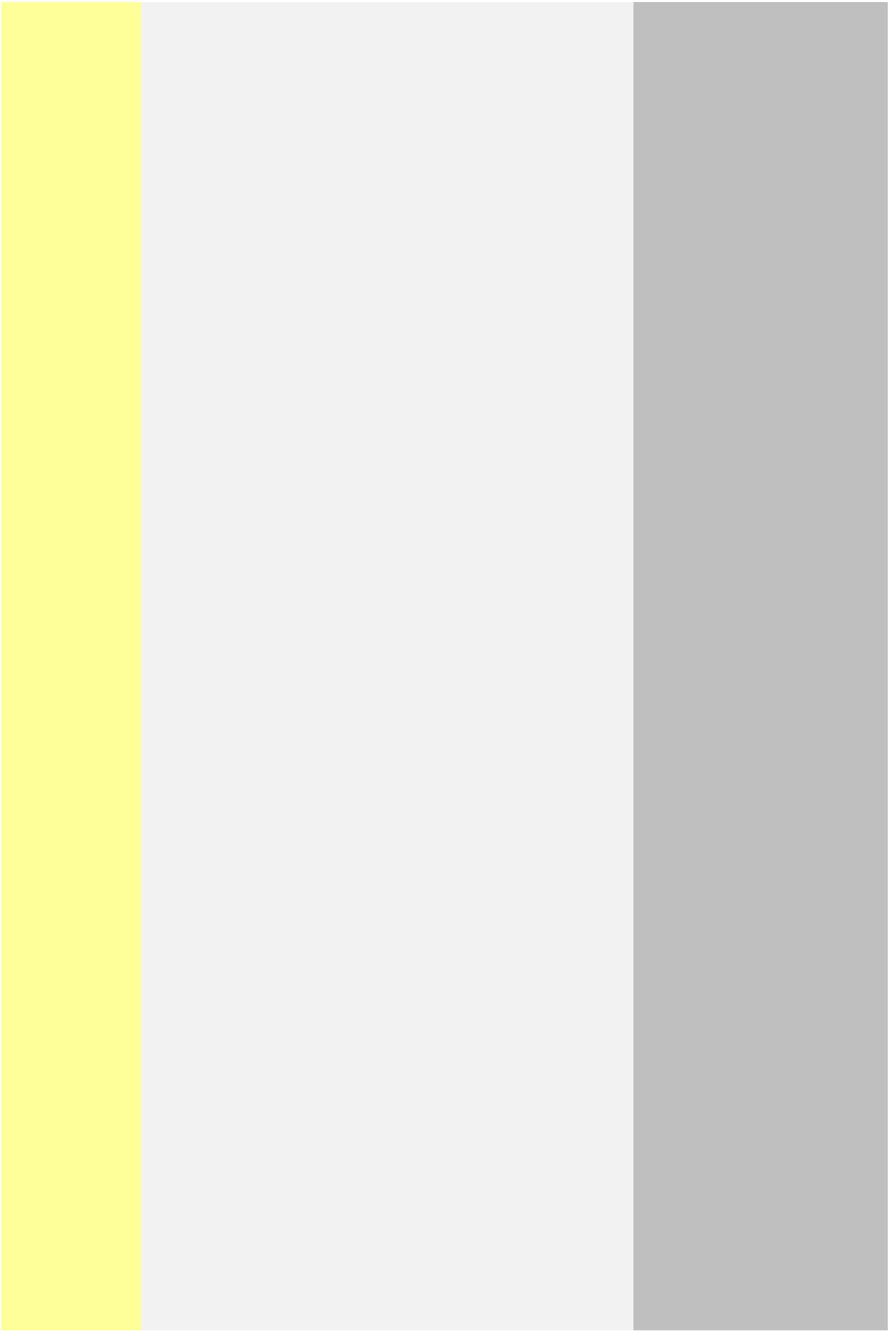


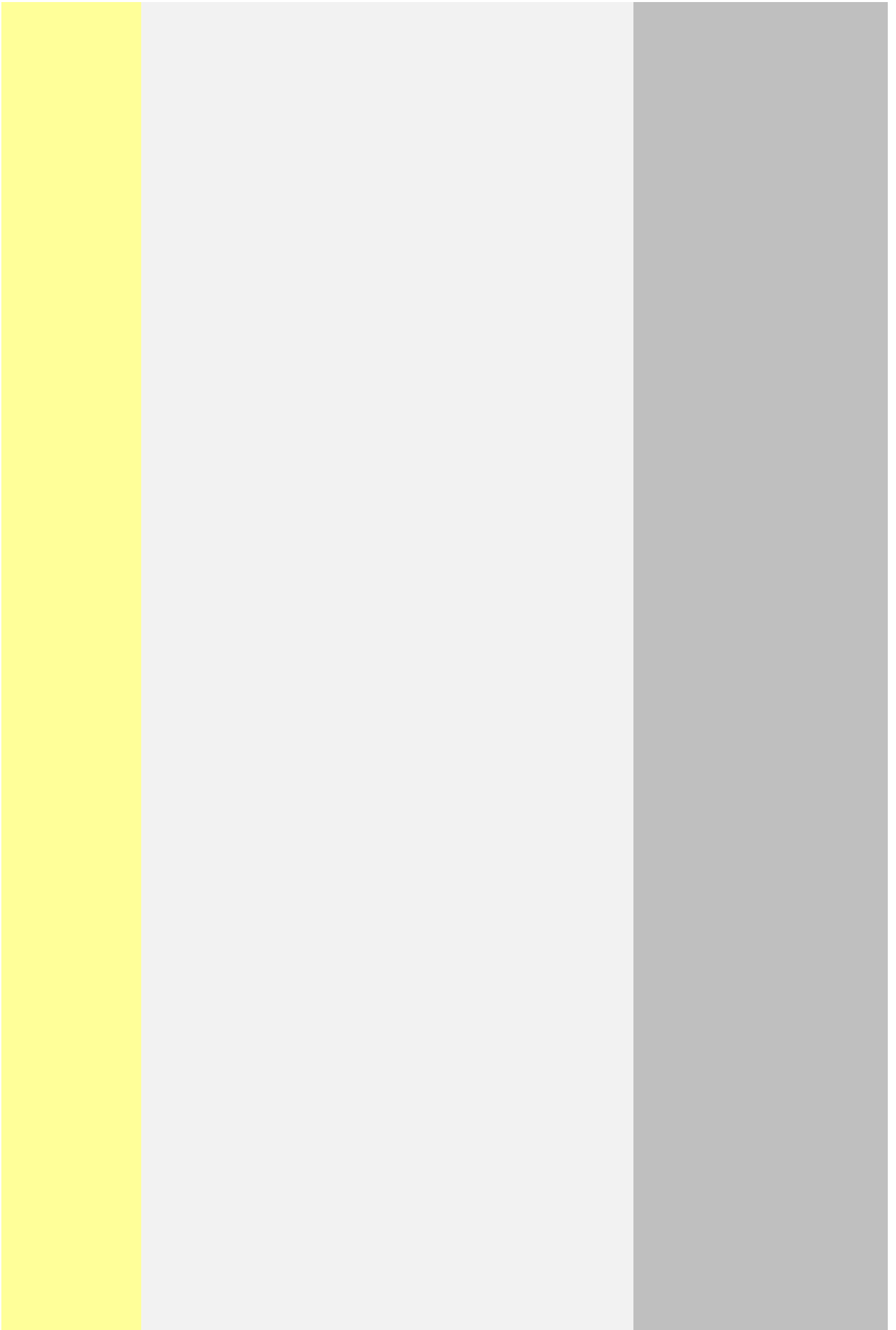


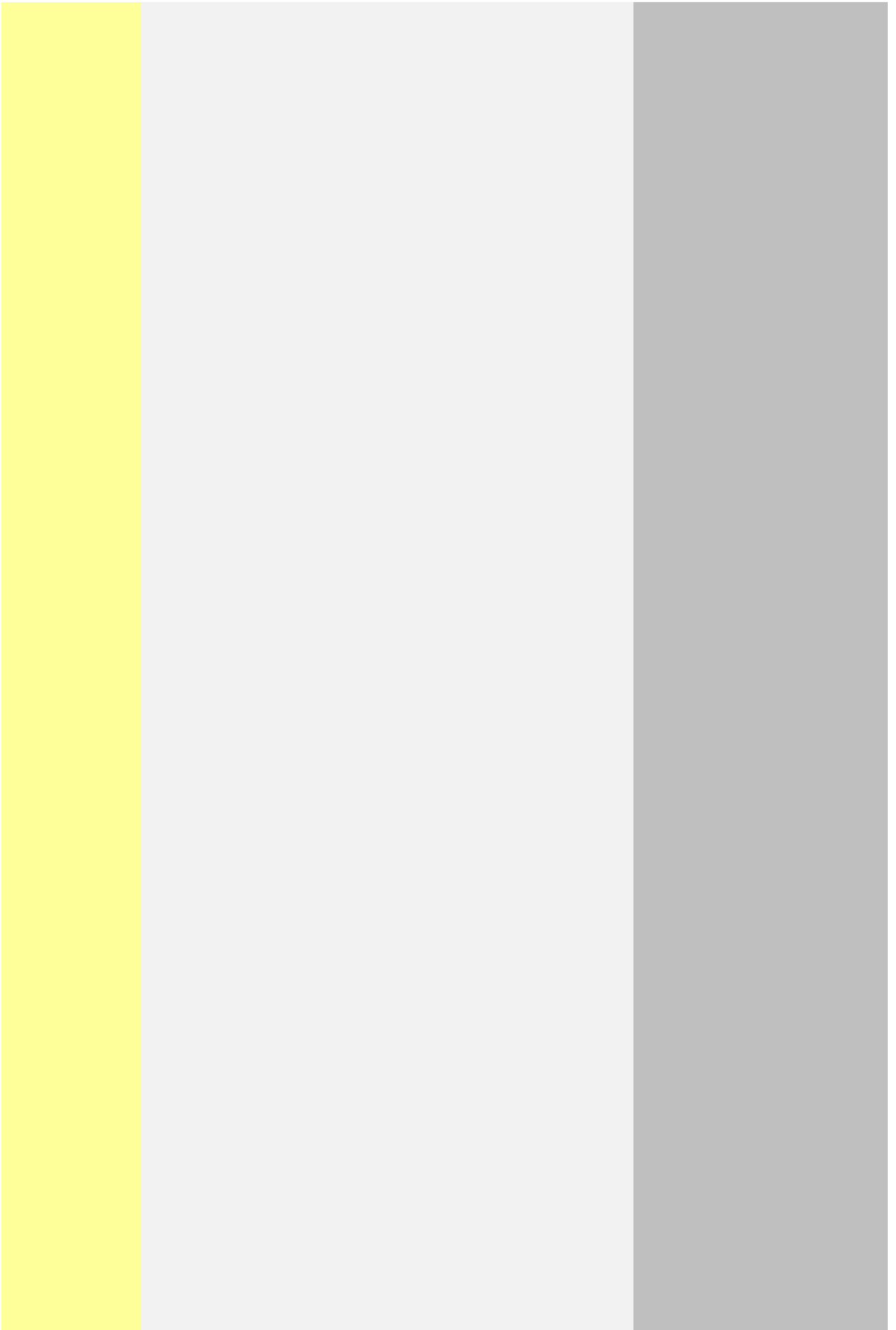


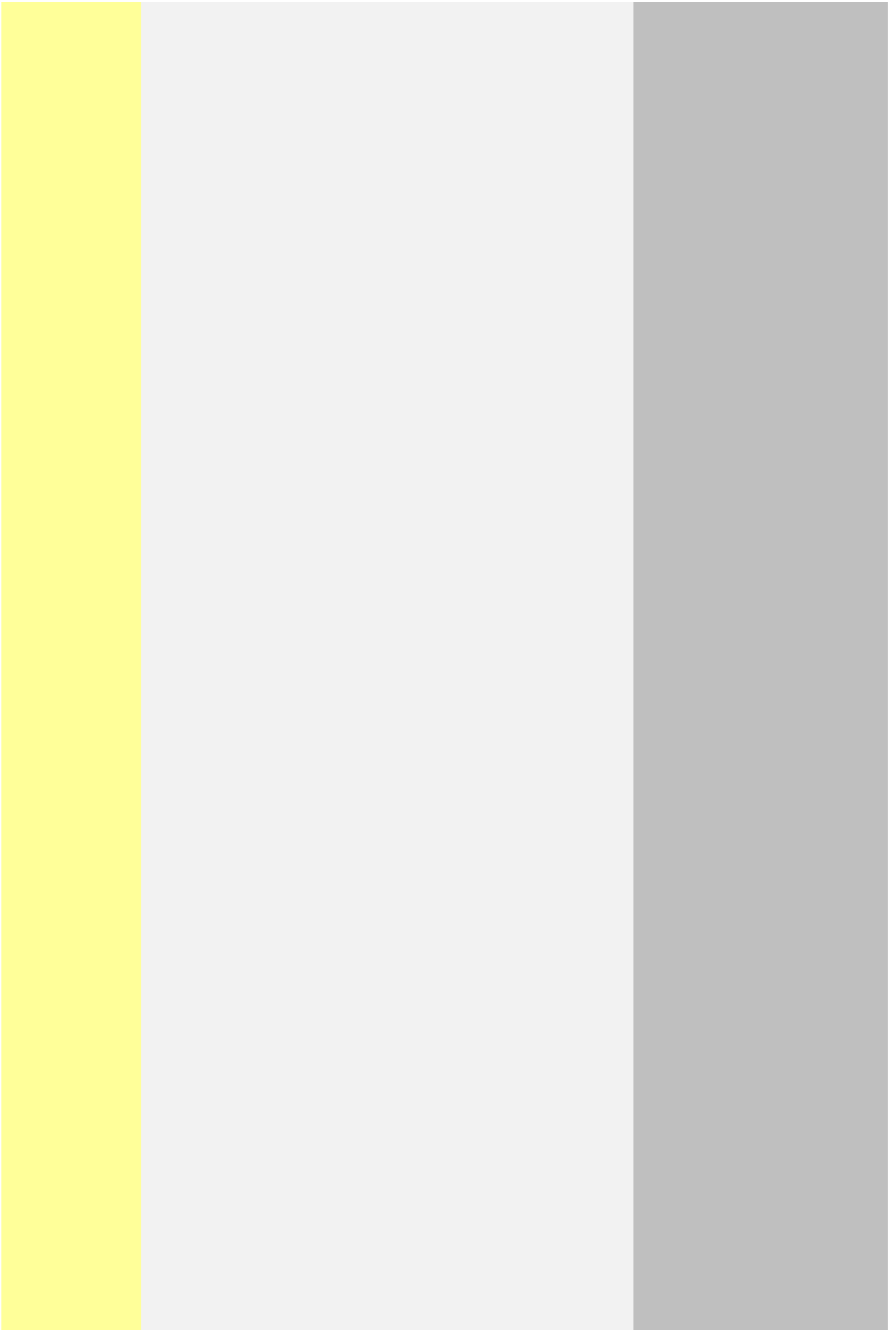


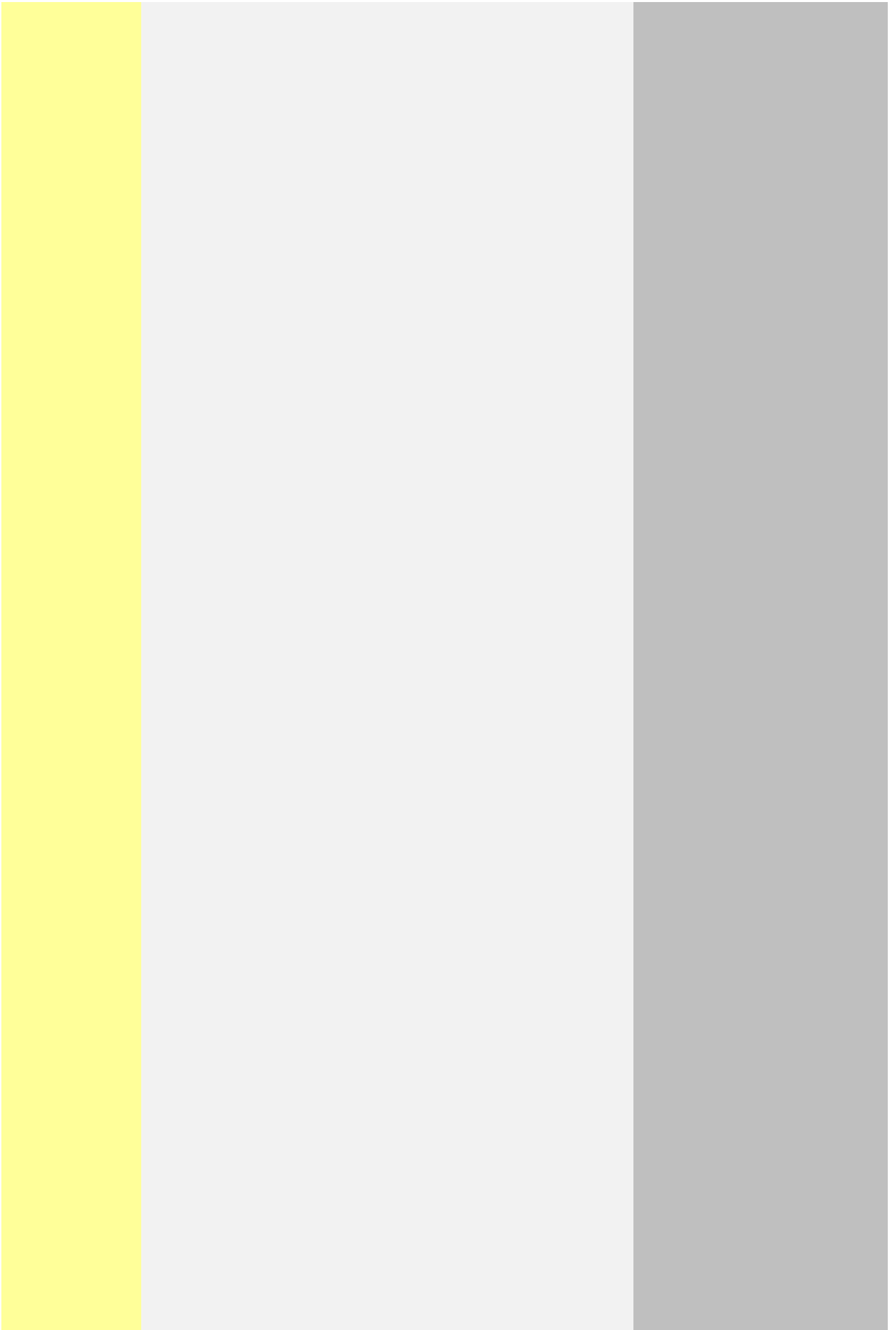




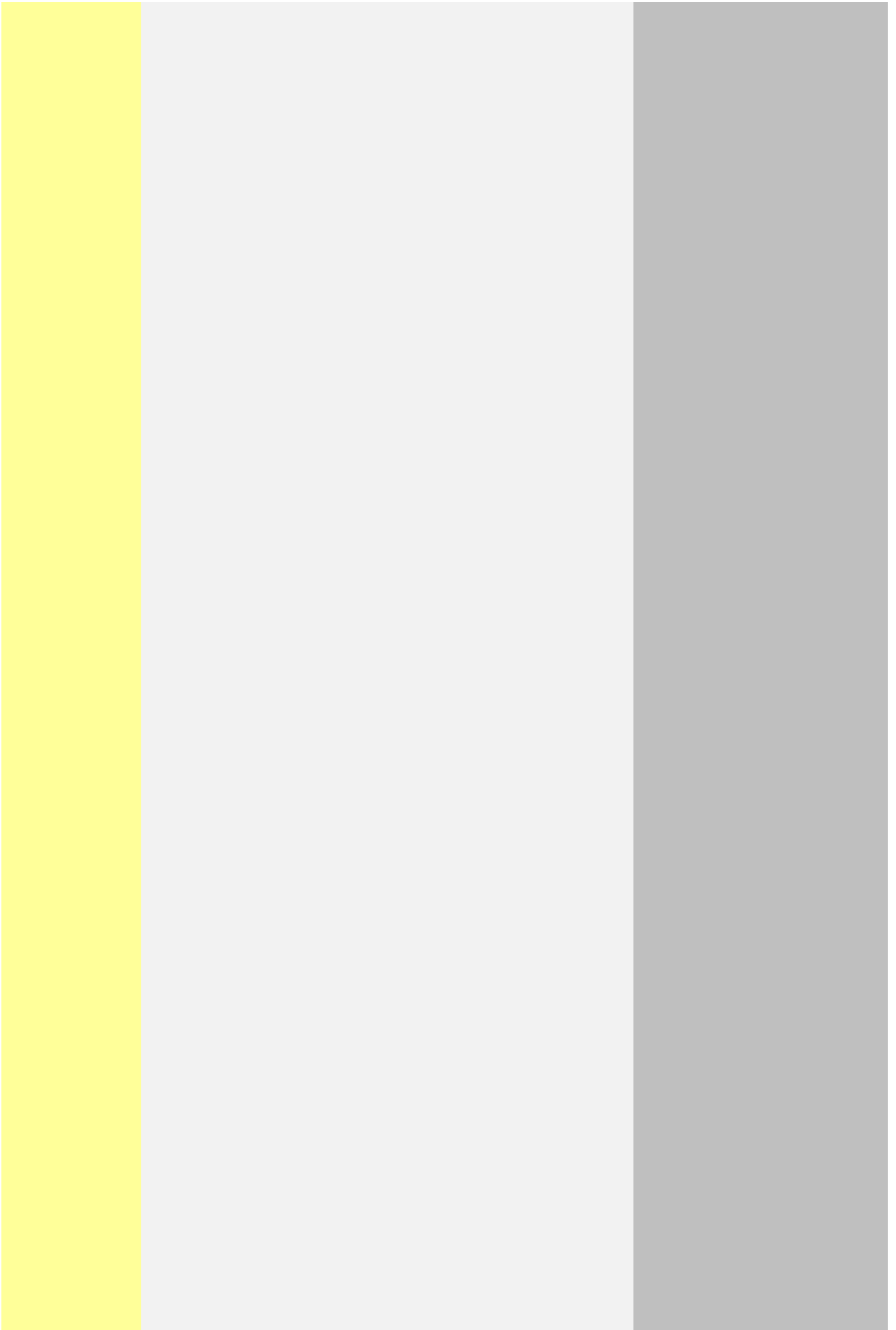






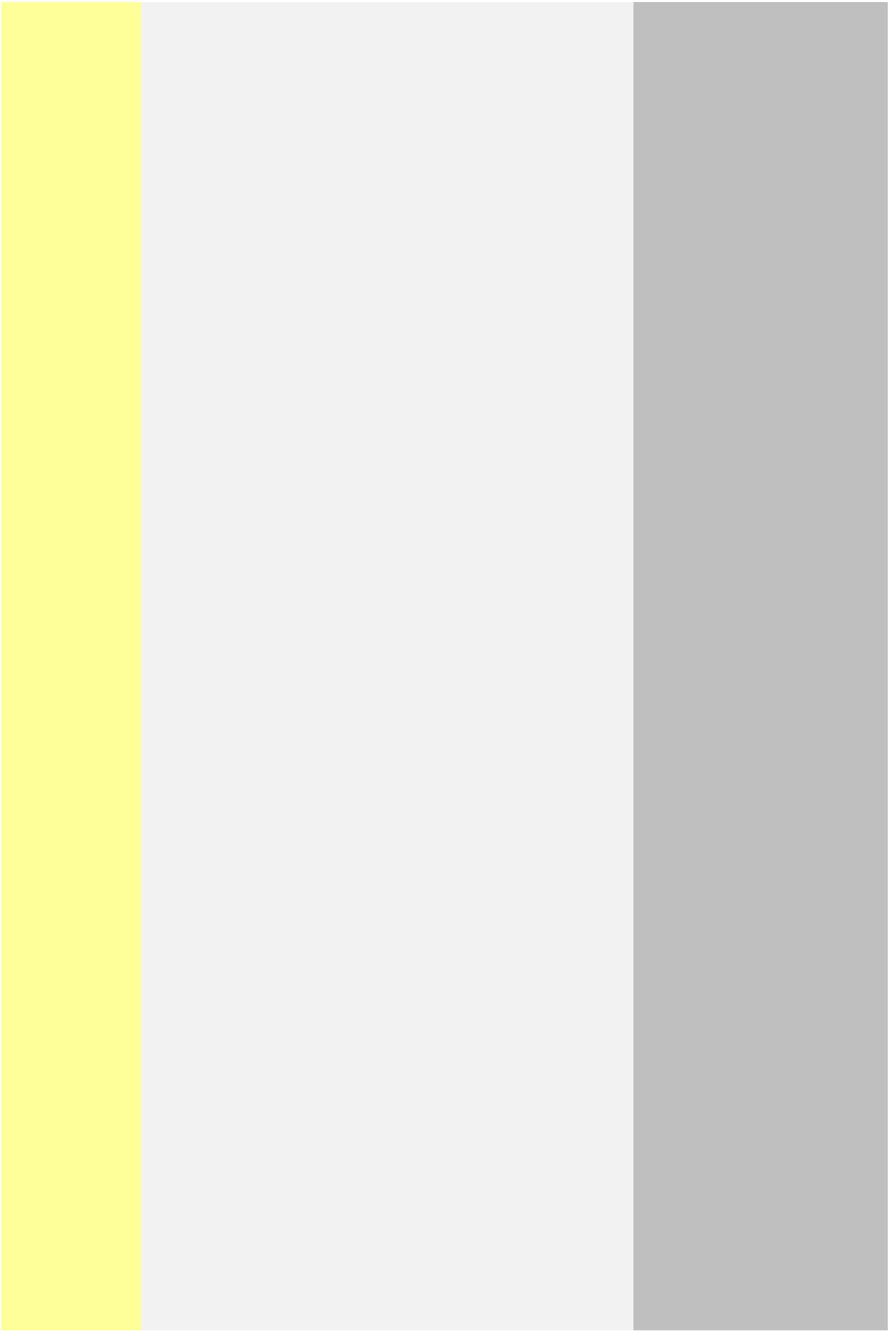


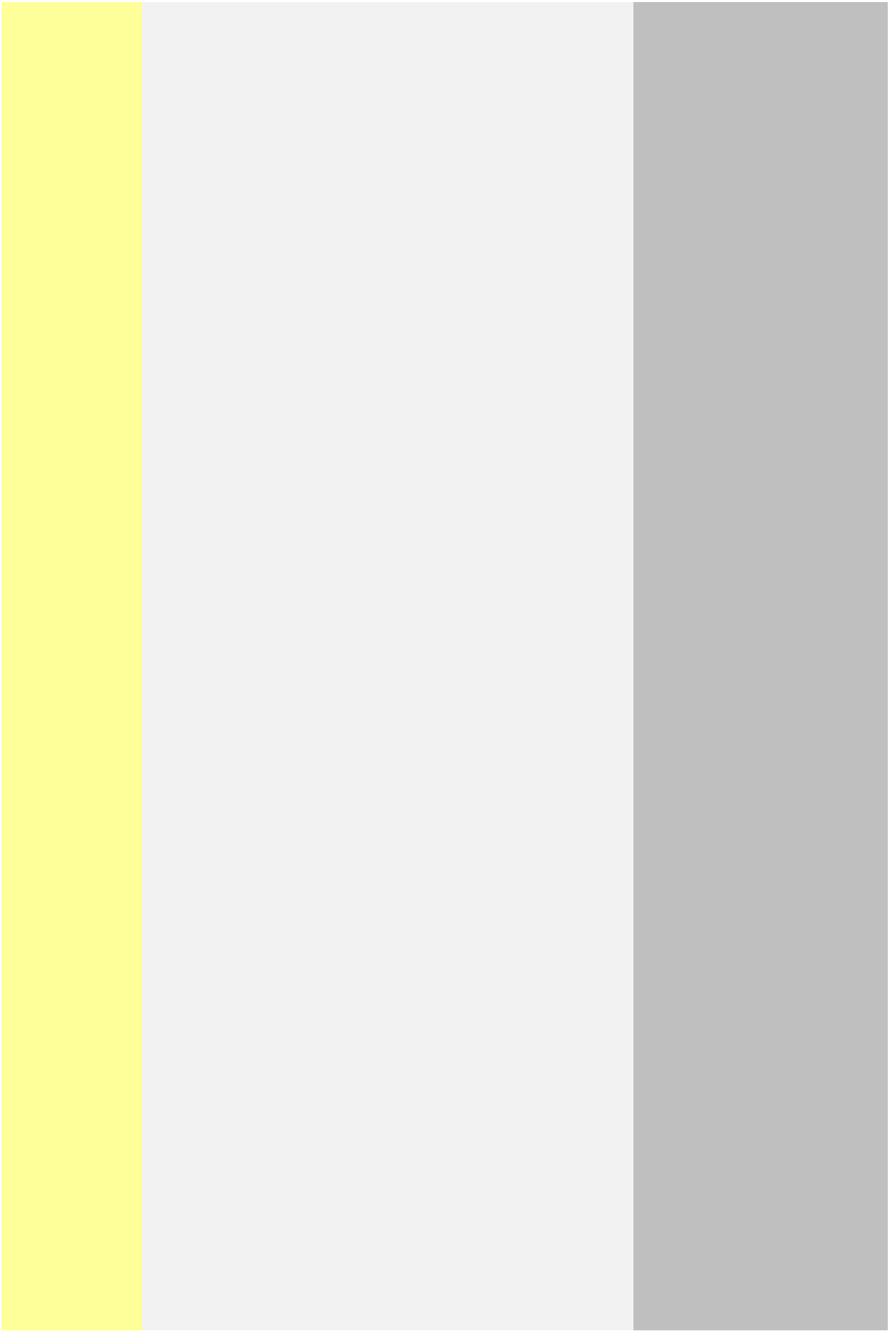


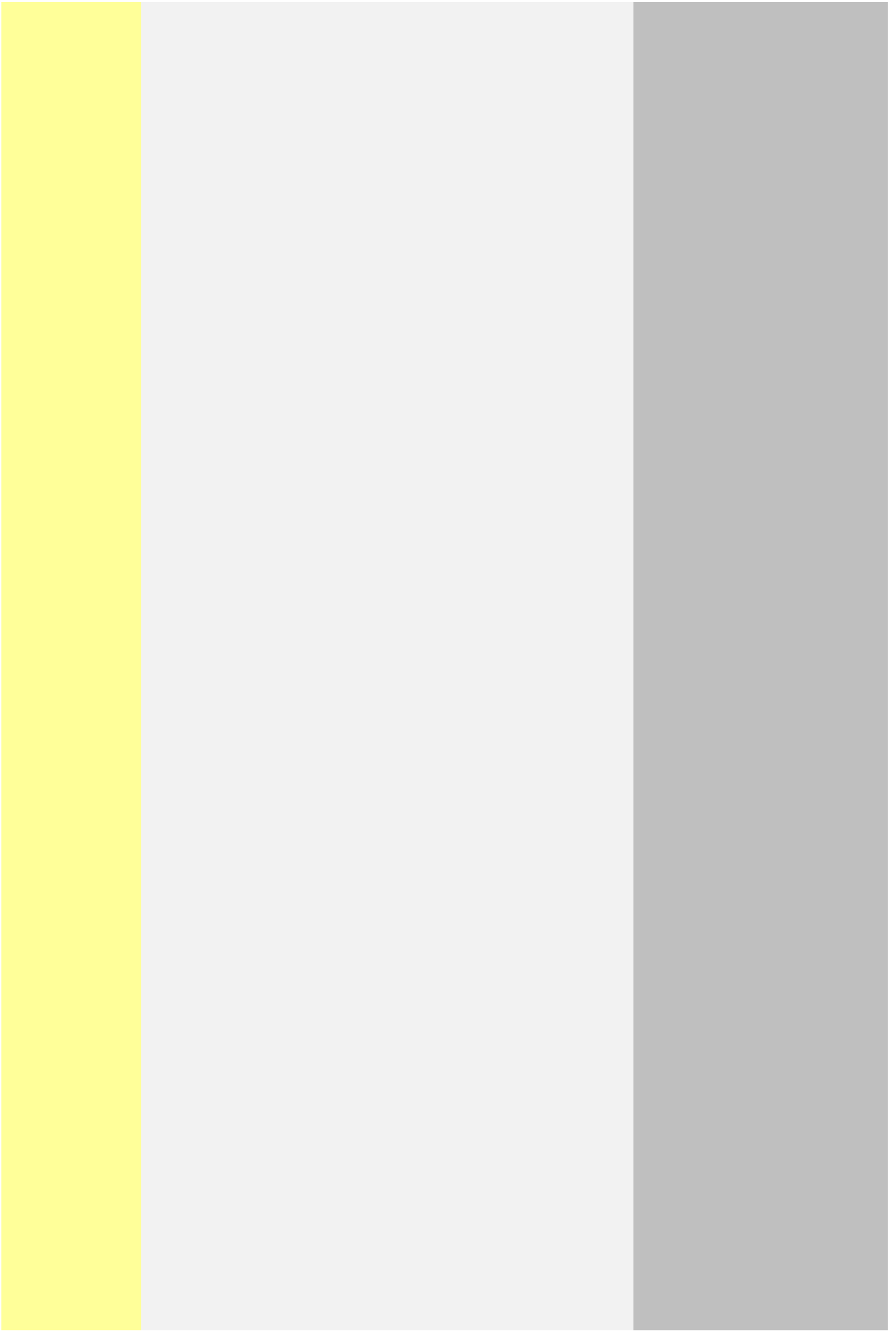














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182.442573	1	0.724413	9.030533	ne	140	135	-5	82.488998
192.764735	1	0.81928	9.044314	ano	150	140	-10	105.2524
191.983502	1	1.986402	9.021018	ano	160	140	-20	86.944664
197.331331	1	1.170591	9.106211	ano	180	140	-40	80.205462
158.164124	1	1.049273	8.943594	ne	105	105	0	102.901027
177.658188	1	1.24751	8.973105	ano	145	135	-10	96.208328
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175.959524	1	0.143113	8.91541	ano	140	130	-10	107.615745
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178.138424	1	1.49378	9.066754	ne	150	140	-10	97.370935
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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
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165.558134	1	0.708882	8.859392	ano	150	160	10	96.122961
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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
186.939945	1	0.965896	8.944872	ano	160	150	-10	79.226413
183.226364	1	1.373997	9.023938					102.632578
170.601623	1	0.59362	9.078173					94.970278
177.590521	1	0.276606	8.889116					94.571544
181.315357	1	0.802037	9.000014					89.232344
185.577976	1	0.549543	8.931926					101.209025
181.38715	1	0.046787	8.855711					123.598454
170.890387	1	0.477501	8.802692					77.891434
198.848459	1	2.1938	8.979065					94.732951
184.871981	1	1.018725	8.993545					107.888525
180.722389	1	0.698061	8.943033					112.878616
188.298412	1	1.677513	8.796553					94.223339
188.620077	1	1.332496	8.847554					64.307062
173.634685	1	1.908116	8.932492					74.201637
170.768083	1	0.508451	8.886881					109.142536
191.111888	1	0.050384	9.08062					94.291261
167.988213	1	1.131205	8.957279					112.624969
164.411079	1	0.255772	9.023041					121.304413
187.113249	1	1.509627	8.89424					96.292382
186.384062	1	1.716177	8.784598					86.202977
202.056884	1	2.36791	8.849418					97.223972
194.437546	1	1.638883	8.755187					110.976555
193.039039	1	0.587134	8.817099					101.612432
181.129604	1	2.031683	9.033408					85.400189
180.019509	1	2.464999	8.9383					121.728147
184.537014	1	3.330842	8.982033					115.394244
179.744853	1	1.919321	9.188029					107.955816
169.453249	1	0.368684	8.857439					79.631934
162.251938	1	3.645214	8.985299					85.893498
188.283314	1	0.639861	9.149192					97.239149
184.442245	1	1.676928	8.833716					120.722769
186.179062	1	0.630006	9.227229					114.833779
182.134732	1	1.825703	8.854985					130.809497
169.730691	1	1.894526	9.001137					80.172515
192.381952	1	0.67289	9.056537					116.101058
176.887868	1	0.327533	9.029547					103.781014
171.600782	1	2.563532	9.008216					108.395119
171.788718	1	0.878577	8.959746					100.999614
175.710073	1	0.722546	9.065231					105.664367

175.466385	1	0.11366	8.924214	71.954458
174.762049	1	14.819747		114.478701
188.494294	1	0.71923		100.049914
185.132074	1	1.496136		128.827253
173.916958	1	6.890404		100.957067
193.049794	1	2.342942		90.938858
162.390636	1	1.206114		95.998235
185.505717	1	0.402837		107.506299
178.837279	1	8.885532		74.940238
180.417413	1	0.128468		73.688136
173.45946	1	0.287901		134.205914
174.50406	1	0.415809		101.85849
188.493203	1	1.552065		103.401959
188.030452	1	0.528183		127.621945
184.564163	1	0.472132		115.042917
186.913683	1	0.294624		86.570231
196.30624	1	1.366617		111.731493
183.039145	1	1.250742		67.657095
185.889956	1	1.692282		68.57905
198.528362	1	0.583929		78.758342
176.644431	1	0.65642		107.244739
190.382746	1	0.734736		70.777253
181.435046	1	0.626793		97.954029
191.410407	1	0.26258		103.300784
178.517012	1	0.289763		91.544428
172.201833	1	0.491525		93.617905
190.759936	1	0.5846		107.728227
174.18178	1	0.56187		109.763949
185.33912	1	2.590061		110.273118
185.457719	1	0.483897		85.184911
176.835629	1	1.61354		98.525988
175.592339	1	0.852418		124.485416
166.340072	1	0.264052		125.223403
199.929576	1	0.471989		85.072361
174.335121	1	1.011347		99.947784
180.861291	1	0.394457		89.81375
177.657392	1	0.953332		91.490557
208.353679	1	1.272155		76.562322
192.519786	1	1.706195		94.411962
188.80907	1	3.976209		92.531389
193.321642	1	0.985231		93.923103
181.878709	1	0.313104		111.949294
185.419577	1	1.344676		104.268747
177.503801	1	0.272926		111.859663
167.789124	1	6.311035		98.257078
192.666851	1	0.644249		133.033211
177.111127	1	0.265423		127.6847
166.941248	1	0.860641		88.162267
187.642541	1	0.840469		104.42671
187.842823	1	0.16983		93.307489

184.281549	1	4.373184	120.35074
184.038816	1	0.530562	81.212784
173.519032	1	0.581969	116.566094
187.230983	1	0.86204	101.255086
185.252878	1	2.208047	92.008509
190.750387	1	0.73503	94.762231
152.305523	1	0.5324	104.054101
184.63815	1	0.925113	100.205966
194.671377	1	0.44541	102.285992
162.77417	1	1.35548	109.23111
180.454941	1	3.842909	123.256575
193.54033	1	1.814876	99.131455
196.882041	1	5.782486	120.06077
182.386651	1	1.00957	95.154417
181.450508	1	2.146731	100.341402
198.545416	1	2.099301	103.161017
179.574152	1	0.536729	88.609807
173.431015	1	0.265815	91.606228
189.073756	1	5.108547	120.394054
179.900933	1	0.2054	110.933104
190.391932	1	0.397668	129.041166
184.347044	1	1.142868	106.964882
194.533634	1	0.945189	87.205797
178.787985	1	0.518851	96.766201
170.382821	1	1.552456	121.62385
164.614124	1	0.924758	126.528369
154.349339	1	1.23391	98.813996
181.031879	1	0.599043	105.413756
182.991919	1	1.499492	121.266692
179.822126	1	0.826788	101.851549
182.004992	1	0.126515	85.257625
182.582328	1	3.961292	104.502272
194.761736	1	1.201617	100.58364
180.852845	1	3.569186	78.789583
168.832633	1	1.063029	134.023105
166.100875	1	2.918968	116.319166
181.914532	1	1.532111	109.430221
189.510813	1	10.596275	89.072865
164.912074	1	2.010887	79.52757
173.900383	1	2.084591	117.52461
185.235324	1	1.569996	111.113491
177.83239	1	0.139001	113.457225
176.564202	1	1.386229	97.495524
178.36524	1	2.27526	79.01175
175.603298	1	0.17176	115.742296
171.973777	1	1.109382	88.868382
186.447965	1	0.820944	70.188856
180.588227	1	2.628637	95.194287
192.634518	1	0.588429	81.972906
182.621891	1	1.881096	71.187208



180.571367	1	1.412277	115.442913
182.269542	1	1.512774	93.292278
182.144907	1	2.597563	108.237225
179.92541	1	2.79938	106.946993
167.761657	1	4.010466	88.686204
182.353613	1	1.814046	93.226265
181.482215	1	1.296075	127.735314
187.524238	1	1.133124	87.887679
172.638232	1	0.162446	99.536925
186.164248	1	3.29399	104.591186
182.191109	1	0.233473	118.313926
181.143462	1	2.928907	118.093465
188.681241	1	0.512759	102.94898
198.028368	1	3.200079	106.705181
166.9161	1	3.819797	108.64863
167.657475	1	1.320667	102.884656
185.600327	1	0.197106	102.739841
191.906991	1	2.370011	108.17858
171.217965	1	1.597195	121.120377
158.546202	1	0.098022	127.171814
171.018217	1	1.239715	106.555882
182.019829	1	0.768269	117.177376
184.290769	1	0.378522	92.959624
170.15065	1	0.624656	90.718925
171.40764	1	2.047171	106.51047
184.616857	1	0.674282	121.919959
181.215869	1	0.909617	106.955929
174.599011	1	0.388832	103.987492
181.024955	1	0.78514	99.22569
170.584956	1	1.058963	114.585078
171.04682	1	1.04847	100.57675
190.465715	1	1.267358	107.230551
196.265903	1	0.645335	107.322194
173.279334	1	0.567719	87.508625
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
162.706322	1	0.96708	92.527501
192.719943	1	1.006948	92.847961
178.002033	1	5.851686	98.359857
168.650984	1	0.845966	91.77345
161.20993	1	3.041845	92.037584

171.751133	1	0.651273	96.951533
184.733761	1	0.396318	81.510769
189.177006	1	2.130572	125.399731
179.305214	1	1.039199	123.547227
179.461579	1	0.862707	81.245423
182.146476	1	0.956844	105.517984
176.479687	1	1.393863	88.919694
189.281234	1	1.642147	100.144013
175.05726	1	1.143751	86.229238
203.434768	1	1.581763	95.063661
187.440235	1	0.334578	100.598561
186.106075	1	2.893435	92.016438
170.189099	1	0.327253	106.842424
188.716961	1	0.60491	110.61087
194.472334	1	0.693288	86.378964
172.686298	1	0.458063	95.643941
176.988879	1	3.529818	95.704957
166.603643	1	1.788486	133.190645
193.53078	1	0.510114	101.829585
190.451186	1	0.812907	111.051691
181.843682	1	2.827308	122.010477
158.088817	1	1.28111	115.997341
185.055426	1	0.380843	109.452611
185.262541	1	1.624529	126.915404
192.161058	1	6.452419	104.889137
170.417996	1	1.101986	90.763331
192.055966	1	0.533643	120.322022
174.380869	1	0.449288	95.287209
172.663288	1	0.422595	67.657095
162.753889	1	1.572926	116.156309
193.746012	1	1.99858	129.769944
170.346328	1	0.152331	95.903045
195.458727	1	3.84875	87.650881
168.327522	1	3.3969	140.14255
175.909673	1	0.752388	87.360297
166.921489	1	0.426486	102.410275
195.897967	1	1.103597	122.610402
180.28806	1	1.468204	111.417751
183.304626	1	0.234861	116.528134
189.763971	1	1.104106	114.033446
199.492018	1	0.811384	102.062188
179.391082	1	10.201741	86.234491
169.703429	1	0.213933	97.283487
174.306359	1	1.991413	82.895372
188.475661	1	1.360706	110.251358
188.723691	1	1.583915	72.526757
185.107654	1	1.183641	89.445064
165.139721	1	0.351186	96.268713
166.038301	1	3.232203	91.119978
178.561862	1	0.259825	125.879331

173.710389	1	0.530215	94.439008
173.724362	1	2.196775	90.590737
188.789902	1	0.498702	98.393332
171.617096	1	2.649326	121.734695
178.851149	1	1.101055	98.239753
177.678628	1	0.662085	94.677989
195.18415	1	1.505109	112.541784
166.825514	1	1.494399	104.510679
170.645551	1	4.389163	97.040499
178.326462	1	0.834936	110.366159
169.388994	1	0.292387	97.118857
165.659406	1	1.381988	87.68468
158.367123	1	1.419064	104.311789
185.808261	1	1.639024	91.316122
176.611234	1	0.944248	106.054472
184.126116	1	0.429301	109.632436
159.51054	1	1.036656	92.823541
191.677002	1	0.813225	90.028039
160.513076	1	2.15822	100.608895
174.826874	1	0.29586	111.792338
170.236029	1	0.928313	98.963585
178.995031	1	0.117914	97.746511
181.347769	1	4.723148	96.601571
197.355433	1	1.70921	98.595155
174.934137	1	1.480243	85.535931
172.053756	1	0.187251	108.730058
172.532503	1	1.967326	113.109036
185.867219	1	1.501237	102.512627
192.839382	1	0.669832	121.98019
165.646537	1	0.391388	92.412955
189.692758	1	0.396737	85.938075
195.876321	1	1.706798	117.944694
173.331016	1	6.679561	94.665779
180.831346	1	2.081879	128.541581
171.716686	1	1.544506	122.692939
186.95552	1	0.628987	96.533256
182.392164	1	0.316156	84.638737
180.466423	1	0.902859	84.520014
169.702133	1	1.350604	111.568585
177.004079	1	6.248666	102.89985
187.245899	1	0.100324	130.904721
179.90323	1	0.812653	94.46851
190.022291	1	1.482078	76.35789
169.860726	1	2.833628	87.293074
187.586323	1	0.472515	94.003986
192.416604	1	1.455823	111.895781
168.304808	1	3.221909	102.247691
183.965056	1	2.455127	89.051923
162.188774	1	0.552664	117.089246
180.792966	1	0.213825	102.027434

190.062831	1	2.037892	98.840462
190.353938	1	0.619915	77.099424
181.051103	1	1.83124	81.61336
172.38305	1	1.462897	97.290479
185.784727	1	2.225041	110.51967
184.643255	1	0.224176	97.546701
187.287736	1	0.806574	93.875747
170.509605	1	0.922419	100.07974
185.966558	1	1.184744	113.346039
196.107151	1	0.700228	107.963729
182.342608	1	1.303484	98.72764
176.147244	1	2.328346	107.314435
182.487525	1	1.072442	102.567333
198.182072	1	1.291061	101.896655
155.991705	1	1.033883	98.57672
180.167915	1	0.440123	98.035082
178.769476	1	3.034951	122.338986
189.895439	1	0.249748	115.052433
192.360579	1	0.276993	98.850831
196.35558	1	2.126888	106.916349
161.80997	1	3.709571	111.920952
188.039956	1	1.123907	110.080998
183.668833	1	1.069404	70.197041
187.422091	1	0.713552	82.53204
184.839285	1	1.030564	93.759565
178.646058	1	1.098519	113.783006
196.593322	1	0.440736	98.877297
184.54379	1	0.29048	90.328052
179.688225	1	1.931733	81.215274
179.793818	1	0.284452	84.500437
179.475358	1	2.579512	80.265591
163.171801	1	3.983321	73.946115
184.432115	1	0.715982	92.850553
181.927788	1	3.043146	91.857351
186.507412	1	0.564257	135.463745
178.310955	1	0.715577	96.200023
188.256393	1	0.79821	68.198426
193.214662	1	8.672201	80.05369
199.023082	1	3.32194	88.127786
166.894454	1	1.502483	122.433323
186.200366	1	0.772538	105.4113
177.842565	1	0.200806	77.296216
172.579933	1	2.271606	88.960349
187.392896	1	4.6826	106.265469
203.317261	1	0.880205	94.327004
193.494582	1	0.937541	100.817982
181.797014	1	0.208302	87.995488
175.267092	1	2.700456	91.504046
177.618852	1	2.96284	121.601136
169.019079	1	0.592997	74.809543

180.748469	1	0.380797	87.068247
177.413727	1	0.824215	113.577755
186.394384	1	0.69607	97.753469
167.259412	1	0.322062	100.821427
185.191498	1	1.079209	105.5143
189.765199	1	0.722371	71.092257
171.361051	1	1.487973	103.6355
183.714695	1	0.155856	93.730779
185.309153	1	2.222463	97.920435
189.755354	1	1.634501	103.246726
177.732812	1	0.961102	118.538412
182.330808	1	0.257406	124.652195
175.808821	1	0.688251	116.319166
185.101549	1	1.590669	93.075994
195.769365	1	2.057741	99.586294
178.410192	1	1.062621	97.540885
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
173.681456	1	1.395443	108.125392
171.675656	1	0.377037	100.023533
190.227927	1	2.843736	78.239043
182.229524	1	0.373046	102.282513
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
192.124292	1	2.378194	113.676595
176.954443	1	0.623535	81.342796
165.836803	1	5.526624	92.034941
191.194516	1	0.615033	82.565907
167.116894	1	1.172042	91.030961
176.015913	1	5.09822	130.097772
165.61434	1	1.285262	111.030613
169.016283	1	0.280465	76.898675
186.062805	1	0.285364	103.351346
181.217416	1	0.842624	78.498727
162.508416	1	0.643435	77.081006
200.372318	1	2.65651	91.955559
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
181.686726	1	1.71193	82.04122
175.603298	1	2.744823	95.916141

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
189.158362	1	2.484982	112.553176
179.008878	1	0.533096	95.226892
171.409845	1	0.783225	109.254711
179.152533	1	0.815707	100.909932
177.45246	1	9.164924	108.10943
176.050667	1	0.439652	101.86775
188.706911	1	10.417393	84.421959
177.162126	1	0.425969	102.461434
183.441482	1	1.884439	93.774571
187.971448	1	1.341456	98.202782
182.406341	1	0.200639	113.452075
163.705311	1	0.590296	80.529708
180.269688	1	0.148174	87.683077
186.502682	1	1.028594	92.87881
178.37687	1	0.707961	90.484326
163.505859	1	0.888316	92.355521
164.023043	1	0.225225	117.78842
171.873074	1	1.316684	100.824872
182.597358	1	0.526995	101.678239
173.878248	1	1.638033	134.023105
200.628704	1	0.319768	104.187558
177.830821	1	1.009956	121.380197
188.634493	1	0.469454	114.948341
192.395139	1	0.490751	115.396188
175.414601	1	7.779151	76.429172
161.5519	1	7.568528	107.767551
170.984975	1	0.282389	102.531249
180.99036	1	0.991506	91.75343
182.709874	1	0.322718	101.198657
188.954316	1	5.08944	114.978559
159.254244	1	0.725931	100.293193
173.17638	1	2.784183	85.305919
181.528633	1	0.925753	96.606277
181.415731	1	0.275301	130.003775
179.26381	1	0.72278	58.511762
177.59209	1	1.33718	92.337223
194.696116	1	1.12382	80.309144
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
170.414381	1	2.582294	103.457313
188.41992	1	0.208302	68.792008

178.258158	1	0.895458	109.095589
187.062113	1	0.505861	111.711234
172.44933	1	1.602799	80.735674
183.111336	1	0.37634	82.731697
167.406181	1	0.482741	94.679217
202.835047	1	0.713956	99.593166
188.281154	1	1.999553	111.020109
168.753802	1	0.529125	120.657421
194.922853	1	0.269719	80.366033
177.27504	1	5.629404	98.559429
165.786553	1	1.084689	115.295507
175.677331	1	0.240222	84.187889
182.763875	1	3.056613	106.870442
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
167.769752	1	1.178145	100.615785
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
190.157191	1	2.773436	113.03523
177.100758	1	0.184204	98.879599
185.029369	1	0.604122	104.794833
189.504811	1	6.095316	85.766215
172.310245	1	0.278827	106.870442
172.601067	1	1.149328	107.87403
177.00168	1	1.093972	104.062423
185.046741	1	0.530166	106.547049
162.784266	1	0.937397	99.791731
191.994484	1	6.421741	96.636888
199.232812	1	1.604993	107.4946
180.130433	1	1.729932	104.675428
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
175.590656	1	0.936751	85.514
193.392582	1	2.428416	89.077367
184.546337	1	0.119672	72.245723



187.031713	1	3.898406	87.448462
170.570632	1	1.632104	113.833824
158.976666	1	0.994774	103.771549
179.476131	1	1.257929	111.666145
189.979408	1	0.921853	118.951778
189.03342	1	1.683101	97.923913
175.051212	1	4.637168	130.333376
173.268784	1	0.724237	110.958564
182.86974	1	0.528976	126.611042
169.321577	1	1.118984	59.47328
185.373568	1	1.876885	102.799374
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
169.045591	1	0.653351	122.224867
192.66003	1	0.550902	83.461362
175.663052	1	0.591594	112.62988
192.499709	1	0.296857	113.756778
164.044916	1	0.517129	106.436153
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
198.098763	1	1.517575	102.20939
184.470962	1	0.904805	102.575484
180.82905	1	1.933754	117.44088
174.553821	1	2.348617	131.228046
182.837078	1	1.065312	122.718245
179.803777	1	0.528233	107.698111
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



178.931969	1	1.861758	92.67651
172.224639	1	0.430851	118.558126
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
186.680443	1	0.547182	103.866364
188.026223	1	5.003591	104.740536
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
175.121129	1	1.325613	116.808963
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
188.970324	1	1.079291	90.76195
191.428028	1	18.186981	98.120688
186.224491	1	1.854694	117.517789
182.79806	1	0.871082	99.108468
178.244948	1	0.263954	83.73878
184.040476	1	1.716024	127.628221
174.596362	1	6.050413	130.158071
188.22738	1	0.291434	82.919553
179.019633	1	1.937623	105.297574
173.073675	1	1.358853	88.290301
171.57244	1	0.340959	106.838604
197.725915	1	0.34254	104.52149
184.041294	1	6.059775	104.383583
180.675618	1	8.208208	93.041513
190.422173	1	0.26557	81.285464
170.613514	1	3.876732	102.446325
180.533066	1	1.19296	106.827145
178.135308	1	0.17673	104.076713
185.113748	1	0.783348	94.168923
198.071296	1	0.362884	72.104661
175.833036	1	0.744744	87.847895
194.925172	1	1.978546	105.923999
186.050868	1	0.90808	121.856727
196.048625	1	0.899048	85.493878
200.228163	1	3.636869	81.827921
189.11657	1	0.710494	89.449481
199.890649	1	2.342426	103.108255
179.4723	1	2.728489	64.629569
180.174805	1	1.50724	140.660962
195.271962	1	5.472654	116.623221
173.271661	1	1.522654	94.137988
181.71467	1	1.902017	95.226892

168.922104	1	0.875532	84.06937
179.789225	1	0.77842	130.351111
194.061743	1	0.34147	98.986573
183.266678	1	0.31747	89.030948
180.781461	1	0.138925	68.548082
172.259768	1	3.159239	103.529226
160.786652	1	3.236638	87.591195
174.388031	1	0.282581	98.718431
163.520775	1	0.975628	103.256122
190.625808	1	0.672556	97.590885
179.905526	1	1.543857	128.944578
191.746874	1	1.776722	97.891462
191.266388	1	6.853342	89.893098
188.914412	1	0.344634	91.339178
186.087657	1	3.177617	67.944268
187.80957	1	0.55206	91.590113
182.900833	1	2.210594	106.299285
179.226975	1	0.29291	105.060076
176.582051	1	0.319908	125.332611
173.397751	1	6.146085	89.943439
178.795693	1	1.763651	87.650881
198.670744	1	0.717605	96.229644
179.986608	1	0.291434	94.959364
195.155138	1	0.157391	82.660245
172.744142	1	1.230057	96.858918
197.331331	1	0.514574	110.353062
167.475189	1	4.572734	119.274762
184.012259	1	0.638293	75.294531
184.648359	1	2.010887	84.592148
169.22367	1	0.766628	111.116526
205.260306	1	6.264087	120.221887
185.923653	1	0.937111	107.137885
169.672187	1	2.029089	109.862021
165.413342	1	1.145431	76.60891
163.496946	1	0.958163	88.622051
175.561132	1	0.916842	78.450501
163.981797	1	1.335795	127.32113
167.293791	1	0.384325	69.798409
162.113513	1	0.330055	135.596349
172.974153	1	4.926801	87.897229
176.99528	1	0.292244	75.902028
190.644658	1	0.428879	118.01294
187.368794	1	1.153688	87.740853
178.502312	1	7.023079	103.02154
178.463625	1	1.406103	103.721823
170.970036	1	0.520771	86.109901
193.172667	1	0.240933	119.650201
190.126496	1	1.167513	108.989639
174.377288	1	1.774479	102.004276
196.853483	1	1.284552	112.683938

170.341439	1	3.497844	102.538241
188.04207	1	1.810902	83.18026
194.535863	1	5.745684	86.074602
183.450407	1	6.131457	94.510239
173.113488	1	1.515298	111.462259
177.945031	1	0.732616	95.781423
187.052313	1	0.976226	84.938086
161.484416	1	2.629277	117.315165
171.540767	1	2.933706	105.807561
183.452033	1	2.627998	73.682816
176.21225	1	1.332284	109.070777
168.029049	1	0.273412	104.335698
182.49936	1	3.303764	77.535026
187.536437	1	0.380472	133.729248
162.910822	1	2.332169	71.216266
175.64792	1	1.754025	77.999619
172.377934	1	0.490606	89.745743
184.025537	1	0.54082	120.035566
177.904388	1	1.668747	100.809933
174.914992	1	0.649964	118.121978
181.746503	1	1.918775	107.560971
170.342667	1	2.622876	101.804159
170.640799	1	0.517325	109.029475
175.993539	1	0.936823	110.723147
199.193976	1	0.388414	72.117621
161.659903	1	0.228146	92.644177
178.592762	1	1.825201	75.182459
183.714695	1	0.480527	79.41045
182.704314	1	0.463106	112.082137
195.601836	1	0.868998	78.427923
163.14338	1	1.236034	63.202572
182.852198	1	0.266646	95.536115
169.7527	1	0.436354	105.011509
183.965056	1	0.413472	103.413726
186.982827	1	0.269621	104.413528
171.470531	1	2.949819	91.937005
177.853524	1	0.778358	79.594349
174.687323	1	3.543633	96.868314
167.20757	1	1.548279	88.500804
183.970842	1	0.476589	86.971454
184.230458	1	0.888247	92.777191
178.665362	1	6.627399	111.63047
184.839285	1	1.455704	102.495182
183.486161	1	0.190035	81.858957
203.248322	1	1.713595	120.281846
171.361051	1	0.427095	89.967841
183.768855	1	1.609122	94.4857
158.806227	1	2.241081	85.881016
178.710109	1	4.076958	92.726885
189.831979	1	0.507473	106.531906

171.251661	1	0.748618	83.175962
176.488634	1	0.537077	80.743553
174.091831	1	0.516784	113.685292
176.346708	1	0.72278	87.368483
188.46253	1	0.698517	107.559674
178.742499	1	0.313949	75.128162
198.154151	1	3.814789	110.493289
175.593191	1	0.221968	125.940517
168.34262	1	0.614822	119.266918
186.391565	1	0.327813	94.769547
178.975807	1	0.702743	115.216585
178.334999	1	0.08315	77.227458
163.864791	1	0.757494	80.000757
171.824029	1	2.627998	97.271823
174.306359	1	1.229768	89.654236
172.120706	1	0.139149	102.972376
166.852799	1	0.73191	121.185519
178.814178	1	1.090114	90.788297
190.972553	1	0.342959	95.587666
173.415827	1	0.773577	87.029912
178.938119	1	4.786937	119.417121
179.274542	1	0.463964	78.460187
188.898496	1	1.38746	72.346745
177.554278	1	0.518407	81.340306
204.990732	1	1.163724	96.918723
156.165418	1	0.758639	90.743925
180.007265	1	0.511142	107.754454
172.756079	1	0.682283	127.895339
178.760234	1	0.589258	100.057946
193.218323	1	0.688251	92.402519
183.609989	1	0.23301	115.698572
176.899908	1	0.130866	92.948096
167.456727	1	0.249898	84.19587
175.800476	1	0.147259	115.938713
172.268022	1	1.956215	73.090394
192.037003	1	1.214695	96.863608
174.5014	1	1.424503	98.111446
175.727671	1	1.990254	100.152045
180.337036	1	0.425407	94.340578
174.23153	1	4.461812	116.699755
191.041243	1	1.888675	94.453759
180.90813	1	0.399809	105.910357
179.985846	1	0.259627	96.220163
179.195518	1	1.884793	125.022791
168.629111	1	4.113347	91.188258
180.799878	1	1.766348	110.931603
178.23408	1	1.255462	85.468196
168.289642	1	2.331914	78.752066
173.073675	1	0.672166	96.111092
186.192954	1	1.36563	104.373999

190.520102	1	0.477309	120.527887
186.909795	1	0.274187	89.162461
184.937556	1	3.872274	119.126401
170.025617	1	0.501085	106.864082
191.066595	1	0.640996	103.744299
167.034016	1	0.293148	117.751381
186.659434	1	0.659001	123.519669
165.210889	1	0.827174	94.630309
191.183079	1	3.163933	114.453121
194.809666	1	2.493642	85.240879
182.583113	1	0.632099	105.311011
188.818097	1	1.395103	86.944664
183.062394	1	0.544073	124.211204
165.079467	1	0.292863	116.119441
162.946974	1	0.915224	113.996168
189.30952	1	2.579201	105.038214
190.875283	1	2.661105	85.508509
182.700358	1	2.998024	131.524633
175.610051	1	0.254233	119.227696
171.253912	1	1.396909	106.643108
174.442578	1	0.976451	97.739553
168.438685	1	1.117864	96.946826
172.385096	1	1.368815	100.921426
183.591208	1	1.968085	117.241632
170.413153	1	1.048871	123.758002
198.502851	1	1.07896	101.093935
186.559503	1	1.913342	98.037401
177.799478	1	0.579806	66.483028
176.480494	1	2.484982	112.981752
174.738346	1	15.178229	80.974076
184.414392	1	2.487289	90.199149
192.560076	1	3.955046	124.29606
163.816815	1	1.10504	78.689311
162.85457	1	1.342744	103.397236
175.011399	1	6.313676	92.868527
178.164094	1	0.760148	121.913274
196.149261	1	1.068666	98.653936
177.549548	1	2.97186	55.078238
181.8538	1	0.502107	107.758376
171.136679	1	1.303172	124.652195
172.892651	1	0.907941	117.728291
167.087017	1	0.431979	95.804086
193.022941	1	0.45194	94.193684
181.779131	1	0.998356	93.560061
167.918682	1	0.313479	93.711987
199.68483	1	4.938914	92.804237
163.526686	1	0.980344	93.442839
196.38773	1	0.17008	86.451576
165.549448	1	1.503235	86.816817
169.881167	1	0.206827	87.835156

173.586835	1	0.946348	94.307291
173.024971	1	1.566546	117.128809
191.306884	1	0.560855	92.081155
176.682436	1	1.609122	70.830731
192.879605	1	3.171467	97.066232
171.030813	1	0.735561	88.954346
175.19423	1	0.596328	82.090435
183.582238	1	1.63098	82.083443
161.668134	1	0.429208	118.01294
185.43464	1	2.128833	102.23144
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197.660022	1	11.848564	107.64187
204.334804	1	3.56612	104.412334
175.72683	1	0.700856	85.398313
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
166.45776	1	0.474623	109.529708
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
175.71678	1	0.996373	109.53392
188.961183	1	0.441633	104.701945
164.270335	1	0.996449	67.865006
186.862297	1	0.534438	97.0288
178.79492	1	2.981363	110.114115
175.306416	1	0.789043	109.458222
176.697795	1	0.405213	101.863111
168.984064	1	3.37727	89.387663
196.548029	1	0.753827	123.523626
165.979275	1	0.724938	100.801901
186.597486	1	0.899186	88.174818
186.532014	1	0.262089	116.534443
189.03342	1	0.16515	83.07228
187.08078	1	1.605681	128.640488
189.756582	1	1.994313	87.62994
171.338814	1	1.358525	108.663551
199.060553	1	3.975422	102.509148
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163.520775	1	2.173854	117.13986
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186.259802	1	3.882677	107.475109
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182.452816	1	1.752299	110.671374
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178.777184	1	0.630167	115.820126
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148.210213	3			
143.81981	3			
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159.668914	3			
137.645602	3			
131.716686	3			
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142.308025	3			
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134.418454	3			
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141.83901	3			
145.767561	3			
132.59403	3			
151.765201	3			
148.30812	3			
144.226285	3			
122.585632	3			
165.431291	3			
135.528185	3			
152.867349	3			
140.060822	3			
128.035302	3			
136.653332	3			
148.005122	3			
128.167292	3			
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137.684131	3			
144.970411	3			
149.18983	3			
146.541484	3			
148.506368	3			
135.833036	3			
140.322495	3			
136.90873	3			
153.218323	3			

141.716217	3			
139.460044	3			
144.350397	3			
120.820394	3			
142.297804	3			
131.41537	3			
135.9869	3			
159.716754	3			
138.851922	3			
141.958188	3			
164.247129	3			
140.174043	3			
150.305666	3			
130.93202	3			
141.506965	3			
138.171097	3			
153.706767	3			
137.703765	3			
151.684574	3			
143.754894	3			
131.963227	3			
132.515291	3			
142.879301	3			
157.209004	3			
139.822899	3			
138.891951	3			
140.982675	3			
149.532482	3			
139.173258	3			
129.045591	3			
141.422688	3			
163.519169	3			
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119.742188	3			
136.087854	3			
125.903241	3			
128.106993	3			
145.606591	3			
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129.858179	3			
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125.905288	3			
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140.387558	3			
135.246549	3			
149.397195	3			
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

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

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
1			162.328818	72.91825	zena
1			162.853351	77.187836	zena
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



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

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

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

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

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

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

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

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



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

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
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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

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

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

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
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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

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
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1	191.941465	96.162551	muz
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1	188.752772	98.343297	zena
1	188.022271	92.088797	muz
1	197.762868	97.744517	zena
1	194.547359	101.685617	zena
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1	194.240118	101.995964	muz
1	192.157407	93.73144	zena
1	193.42064	92.944077	muz
1	190.148274	95.358144	zena
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1	196.939084	92.551935	muz
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1	193.896256	98.850231	muz
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