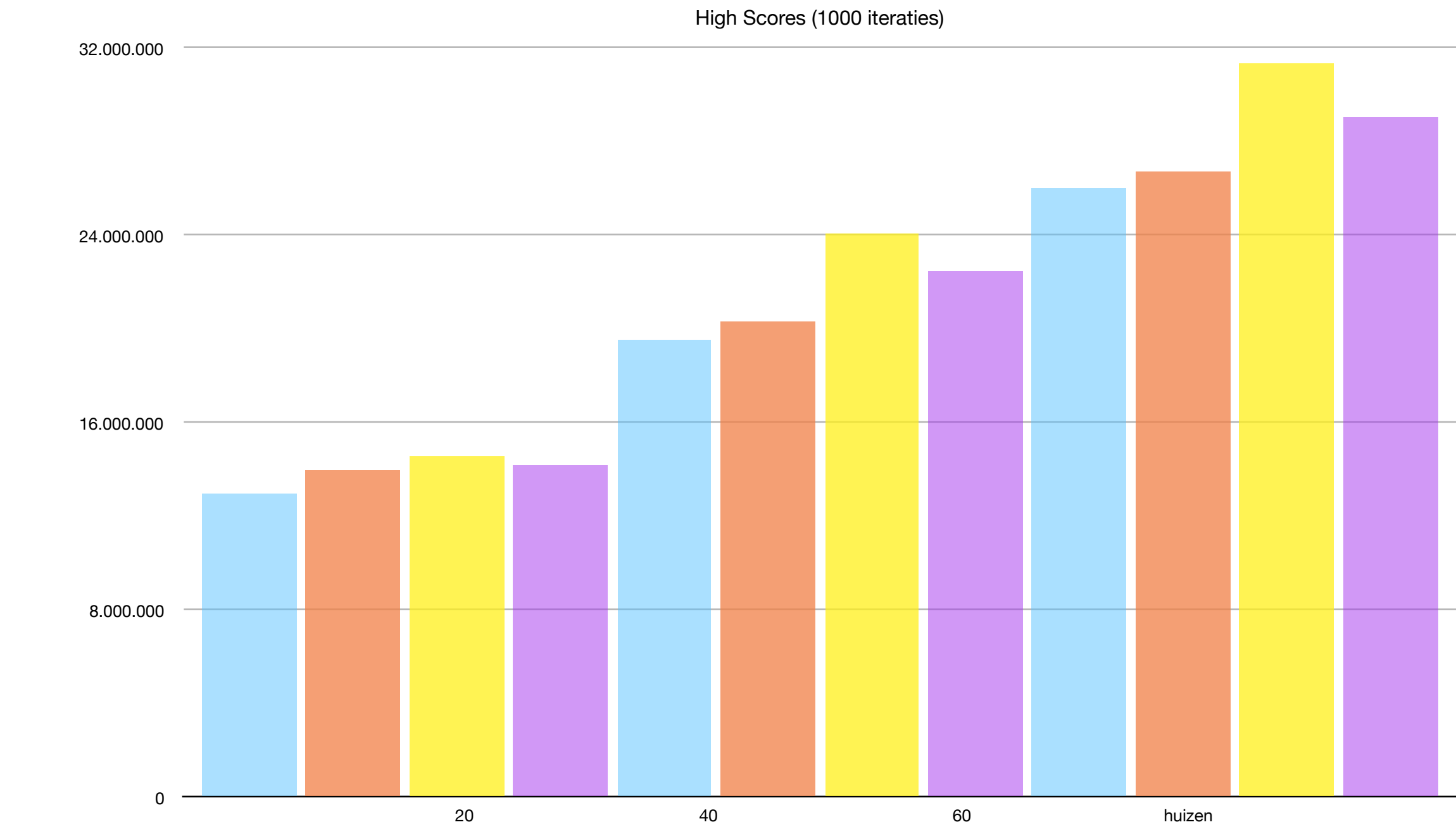


Best Scores 20 - 40 - 60 houses (1000 iteraties)												
	20	20	20	20	40	40	40	40	60	60	60	60
	Random	HillSwaps	HillMoves (+ heuristic)	SA (+ heuristic)	Random	HillSwaps	HillMoves (+ heuristic)	SA (+ heuristic)	Random	HillSwaps	HillMoves (+ heuristic)	SA (+ heuristic)
Iteraties	1000	1000	1000	998	1000	1000	1000	998	1000	1000	1000	998
Aantal huizen	20	20	20	20	40	40	40	40	60	60	60	60
Hoogste High score	12.978.420	14.006.700	14.565.000	14.199.000	19.558.800	20.348.520	24.079.200	22.468.799	26.030.520	26.728.080	31.324.200	29.055.000
Laagste High score	12.042.240	12.649.740	11.783.400	10.905.000	18.890.880	19.650.780	22.176.000	19.394.400	25.401.240	25.932.240	27.810.600	25.614.600
Verschil tussen scores	936.180	1.356.960	2.781.600	3.294.000	667.920	697.740	1.903.200	3.074.399	629.280	795.840	3.513.600	3.440.400
Gemiddelde scores	12.310.776	13.170.654	13.796.399,9	12.800.880	19.199.250	20.000.832	22.951.920	20.873.039,8	25.644.048	26.352.630	29.655.240	27.151.800
Snelste runtime	19,897	80,547	27,446	7,526	25,707	73,297	39,717	11,932	47,876	90,226	25,874	10,273
Langste runtime	27,626	98,954	77,082	39,611	32,574	91,218	51,555	29,820	55,033	105,105	42,667	18,088
Verschil tussen runtimes	7,730	18,407	49,635	32,084	6,867	17,922	11,838	17,887	7,157	14,879	16,793	7,815
Gemiddelde runtime (sec)	21,433	90,175	58,444	26,199	29,457	80,133	43,694	21,147	50,860	97,069	34,439	14,885



Resultaten Random Algoritme

Aantal huizen	Iteraties	Hoogste score	Laagste score	Verschil score	Swaps	Moves	Runtime (sec)
20	1000	12174540	8564220	3610320	0	0	21,800
20	1000	12331140	8474400	3856740	0	0	27,626
20	1000	12211080	8519340	3691740	0	0	20,557
20	1000	12375360	8504760	3870600	0	0	19,922
20	1000	12508020	8657100	3850920	0	0	20,575
20	1000	12042240	8413740	3628500	0	0	20,094
20	1000	12978420	8475540	4502880	0	0	21,825
20	1000	12303960	8648580	3655380	0	0	20,917
20	1000	12099480	8785860	3313620	0	0	19,897
20	1000	12083520	8602800	3480720	0	0	21,116
Gemiddelden		12310776		3746142	0	0	21,433
40	1000	19269360	16210740	3058620	0	0	26,280
40	1000	19558800	15910920	3647880	0	0	25,707
40	1000	19187040	16163760	3023280	0	0	30,127
40	1000	19400160	16153080	3247080	0	0	29,738
40	1000	18890880	16242660	2648220	0	0	27,717
40	1000	18944520	15910740	3033780	0	0	28,270
40	1000	19352640	16114740	3237900	0	0	32,574
40	1000	19093680	16078500	3015180	0	0	31,675
40	1000	18999780	15869880	3129900	0	0	30,605
40	1000	19295640	16143060	3152580	0	0	31,873
Gemiddelden		19199250			0	0	29,457
60	1000	25415340	23007480	2407860	0	0	47,876
60	1000	25659120	23239140	2419980	0	0	48,068
60	1000	25401240	23171400	2229840	0	0	54,535
60	1000	25717680	23146140	2571540	0	0	48,461
60	1000	25466700	23170740	2295960	0	0	49,876
60	1000	25710240	23163000	2547240	0	0	51,707
60	1000	26030520	23018460	3012060	0	0	55,033
60	1000	25625820	23067900	2557920	0	0	48,873
60	1000	25570020	23186940	2383080	0	0	51,675
60	1000	25843800	23119440	2724360	0	0	52,496
Gemiddelden		25644048			0	0	50,860

Resultaten HillSwaps Algoritme							
Aantal huizen	Iteraties	Hoogste score	Laagste score	Verschil score	Swaps	Moves	Runtime (sec)
20	1000	12856320	12232740	623580	9	0	84,901
20	1000	12649740	12307740	342000	6	0	80,547
20	1000	13281060	12601800	679260	13	0	88,301
20	1000	13139460	12391740	747720	12	0	87,334
20	1000	14006700	12426240	1580460	14	0	98,954
20	1000	13095720	12177900	917820	9	0	92,115
20	1000	12925920	12359760	566160	13	0	98,604
20	1000	13729800	12450540	1279260	13	0	98,726
20	1000	13282499	12565080	717419	10	0	89,423
20	1000	12739320	12231959	507361	8	0	82,847
Gemiddelden		13170654		796104	11	0	90,175
40	1000	20348520	19378020	970500	17	0	75,528
40	1000	19996380	18929940	1066440	21	0	73,297
40	1000	19704240	18831420	872820	20	0	77,475
40	1000	19856340	19118400	737940	15	0	76,061
40	1000	19988340	19243620	744720	28	0	76,963
40	1000	20172660	19052400	1120260	23	0	85,566
40	1000	20087340	19210800	876540	13	0	82,109
40	1000	19650780	19224840	425940	13	0	77,574
40	1000	20082480	19101060	981420	20	0	91,218
40	1000	20121240	19061880	1059360	24	0	85,539
Gemiddelden		20000832			19	0	80,133
60	1000	25932240	25340820	591420	20	0	91,526
60	1000	26349060	25534860	814200	22	0	95,628
60	1000	26530860	25683300	847560	17	0	98,092
60	1000	26253540	25560420	693120	24	0	90,226
60	1000	26728080	25819920	908160	24	0	96,449
60	1000	26440920	25692780	748140	20	0	96,966
60	1000	26612160	25790400	821760	20	0	105,105
60	1000	26203440	25488840	714600	22	0	94,134
60	1000	26209920	25531140	678780	18	0	103,859
60	1000	26266080	25335540	930540	22	0	98,703
Gemiddelden		26352630			21	0	97,069

Resultaten HillMoves (+ Heuristieken) Algoritme

Aantal huizen	Iteraties	Hoogste score	Laagste score	Verschil scores	Swaps	Moves	Runtime (sec)
20	1000	14565000	10465799	4099201	0	352	77,082
20	1000	14565000	12881400	1683600	0	432	74,129
20	1000	13320600	7977000	5343600	0	460	53,497
20	1000	13467000	11783400	1683600	0	221	62,191
20	1000	14565000	11051400	3513600	0	314	63,444
20	1000	14565000	11783400	2781600	0	525	65,238
20	1000	14565000	9660600	4904400	0	438	56,870
20	1000	12002999	8855400	3147599	0	379	32,023
20	1000	14565000	11197800	3367200	0	411	72,514
20	1000	11783400	8855400	2928000	0	437	27,446
Gemiddelden		13796400		3345240	0	397	58,444
40	1000	23347200	18003600	5343600	0	558	45,237
40	1000	22688400	16832400	5856000	0	597	39,717
40	1000	23493600	19321200	4172400	0	460	46,559
40	1000	22395600	17637600	4758000	0	533	39,844
40	1000	23347200	18516000	4831200	0	562	44,803
40	1000	22688400	18589200	4099200	0	451	41,400
40	1000	22981200	17052000	5929200	0	543	41,203
40	1000	22322400	19174800	3147600	0	476	51,555
40	1000	24079200	17784000	6295200	0	508	45,159
40	1000	22176000	17418000	4758000	0	547	41,460
Gemiddelden		22951920		4919040	0	524	43,694
60	1000	30958200	24809400	6148800	0	454	42,682
60	1000	28689000	24443400	4245600	0	508	27,731
60	1000	31324200	24736200	6588000	0	484	42,621
60	1000	30153000	24370200	5782800	0	525	36,795
60	1000	28323000	24443400	3879600	0	610	27,052
60	1000	30006600	24663000	5343600	0	444	42,196
60	1000	30665400	25541400	5124000	0	429	42,667
60	1000	27810600	24443400	3367200	0	524	25,874
60	1000	30079800	23711400	6368400	0	447	30,612
60	1000	28542600	23711400	4831200	0	471	26,162
Gemiddelden		29655240		5167920	0	490	34,439

Resultaten Simulated Annealing (+ Heuristieken) Algoritme

Aantal huizen	Iteraties	Hoogste score	Laagste score	Score verschil	Swaps	Moves	Runtime (sec)	
20	998	13393800	10099800	3294000	0	934	31,754	
20	998	10905000	8123400	2781600	0	948	7,526	
20	998	14052600	11197800	2854800	0	940	33,458	
20	998	11563800	10172999	1390801	0	945	21,076	
20	998	12442200	9733800	2708400	0	927	23,844	
20	998	11856600	9733800	2122800	0	935,000	13,964	
20	998	14199000	11710200	2488800	0	916,000	39,611	
20	998	13467000	9001800	4465200	0	920,000	24,538	
20	998	12954600	10612200	2342400	0	927,000	35,288	
20	998	13174200	9733799	3440401	0	952,000	30,926	
Gemiddelden		12800880		2788920	0	0	26,199	
40	998	19394400	16832400	2562000	0	925	11,932	
40	998	20492400	17564400	2928000	0	941	18,176	
40	998	22029600	19321200	2708400	0	933	29,820	
40	998	21078000	18735600	2342400	0	941	23,029	
40	998	21297600	19540800	1756800	0	954	28,945	
40	998	20346000	17271600	3074400	0	928,000	18,757	
40	998	19833599	18296400	1537199	0	928,000	16,954	
40	998	20931600	17271600	3660000	0	910,000	19,142	
40	998	20858400	18589200	2269200	0	937,000	21,127	
40	998	22468799	18442800	4025999	0	952,000	23,591	
Gemiddelden		20873040			0	0	21,147	
60	998	27444600	23931000	3513600	0	939	16,523	
60	998	29055000	27151800	1903200	0	921	18,088	
60	998	26346600	25395000	951600	0	936	13,713	
60	998	27298200	25102200	2196000	0	942	13,009	
60	998	25980600	24663000	1317600	0	938	14,308	
60	998	27883800	24004200	3879600	0	920,000	15,338	
60	998	27371400	24955800	2415600	0	926,000	14,895	
60	998	26566200	25321800	1244400	0	939,000	15,060	
60	998	25614600	22686600	2928000	0	932,000	10,273	
60	998	27957000	25687800	2269200	0	941,000	17,643	
Gemiddelden		27151800			0	0	14,885	