Homework 5 (PSTAT 131/231)

Jonathan Palada Rosal

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Elastic Net Tuning

For this assignment, we will be working with the file "pokemon.csv", found in /data. The file is from Kaggle: https://www.kaggle.com/abcsds/pokemon.

The Pokémon franchise encompasses video games, TV shows, movies, books, and a card game. This data set was drawn from the video game series and contains statistics about 721 Pokémon, or "pocket monsters." In Pokémon games, the user plays as a trainer who collects, trades, and battles Pokémon to (a) collect all the Pokémon and (b) become the champion Pokémon trainer.

Each Pokémon has a primary type (some even have secondary types). Based on their type, a Pokémon is strong against some types, and vulnerable to others. (Think rock, paper, scissors.) A Fire-type Pokémon, for example, is vulnerable to Water-type Pokémon, but strong against Grass-type.



Figure 1: Fig 1. Darkrai, a Dark-type mythical Pokémon from Generation 4.

The goal of this assignment is to build a statistical learning model that can predict the **primary type** of a Pokémon based on its generation, legendary status, and six battle statistics.

Read in the file and familiarize yourself with the variables using pokemon codebook.txt.

library(glmnet)
library(tidyverse)
library(tidymodels)

library(ISLR)
library(ggplot2)
library(dplyr)

Exercise 1

Install and load the janitor package. Use its clean_names() function on the Pokémon data, and save the results to work with for the rest of the assignment. What happened to the data? Why do you think clean_names() is useful?

library(janitor)
Pokemon <- read.csv("C:\\Users\\Jonat\\OneDrive\\schoolwork\\PSTAT 131\\HW\\HW 5\\homework-5\\data\\Pok
Pokemon</pre>

##		Х.	Name	Type.1	Type.2	Total	НР	Attack	Defense	
##	1	1	Bulbasaur	Grass	Poison	318	45	49	49	
##	2	2	Ivysaur	Grass	Poison	405	60	62	63	
##	3	3	Venusaur	Grass	Poison	525	80	82	83	
##	4	3	VenusaurMega Venusaur	Grass	Poison	625	80	100	123	
##	5	4	Charmander	Fire		309	39	52	43	
##	6	5	Charmeleon	Fire		405	58	64	58	
##	7	6	Charizard	Fire	Flying	534	78	84	78	
##	8	6	CharizardMega Charizard X	Fire	Dragon	634	78	130	111	
##	9	6	CharizardMega Charizard Y	Fire	Flying	634	78	104	78	
##	10	7	Squirtle	Water		314	44	48	65	
##	11	8	Wartortle	Water		405	59	63	80	
##	12	9	Blastoise	Water		530	79	83	100	
##	13	9	BlastoiseMega Blastoise	Water		630	79	103	120	
##	14	10	Caterpie	Bug		195	45	30	35	
##	15	11	Metapod	Bug		205	50	20	55	
##	16	12	Butterfree	Bug	Flying	395	60	45	50	
##	17	13	Weedle	Bug	Poison	195	40	35	30	
##	18	14	Kakuna	Bug	Poison	205	45	25	50	
##	19	15	Beedrill	Bug	Poison	395	65	90	40	
##	20	15	BeedrillMega Beedrill	Bug	Poison	495	65	150	40	
##	21	16	Pidgey	Normal	Flying	251	40	45	40	
##	22	17	Pidgeotto	Normal	Flying	349	63	60	55	
##	23	18	Pidgeot	Normal	Flying	479	83	80	75	
##	24	18	PidgeotMega Pidgeot	Normal	Flying	579	83	80	80	
##	25	19	Rattata	Normal		253	30	56	35	
##	26	20	Raticate	Normal		413	55	81	60	
##	27	21	Spearow	Normal	Flying	262	40	60	30	
##	28	22	Fearow	Normal	Flying	442	65	90	65	
##	29	23	Ekans	Poison		288	35	60	44	
##	30	24	Arbok	Poison		438	60	85	69	
##	31	25		Electric		320	35	55	40	
##	32	26		Electric		485	60	90	55	
##	33	27	Sandshrew	Ground		300	50	75	85	
##	34	28	Sandslash	Ground		450	75	100	110	
##	35	29	Nidoranâ\23	•	Poison		27		47	
##	36	30	Nidorina	Poison		365	70	62	67	

##	37	31	Nidoqueen	Poison	Ground	505	90	92	87	
##		32	Nidoqueen Nidoranâ\23				273	46	57 40	1
##		33	Nidorino	Poison	5011	365	61	72	57	,
##		34	Nidoking	Poison	Ground	505	81	102	77	
##		35	Clefairy	Fairy	01 0 dila	323	70	45	48	
##		36	Clefable	Fairy		483	95	70	73	
##	43	37	Vulpix	Fire		299	38	41	40	
##	44	38	Ninetales	Fire		505	73	76	75	
##	45	39	Jigglypuff	Normal	Fairy	270	115	45	20	
##	46	40	Wigglytuff	Normal	Fairy	435	140	70	45	
##	47	41	Zubat	Poison	Flying	245	40	45	35	
##	48	42	Golbat	Poison	Flying	455	75	80	70	
##	49	43	Oddish	Grass	Poison	320	45	50	55	
##	50	44	Gloom	Grass	Poison	395	60	65	70	
##	51	45	Vileplume	Grass	Poison	490	75	80	85	
	52	46	Paras	Bug	Grass	285	35	70	55	
	53	47	Parasect	Bug	Grass	405	60	95	80	
	54	48	Venonat	Bug	Poison	305	60	55	50	
	55	49	Venomoth	Bug	Poison	450	70	65	60	
	56	50	Diglett	Ground		265	10	55	25	
	57	51	Dugtrio	Ground		405	35	80	50	
	58	52	Meowth	Normal		290	40	45	35	
	59	53 54	Persian	Normal		440	65	70	60	
	60 61	54 55	Psyduck Golduck	Water		320 500	50 80	52 82	48 78	
	62	56		Water Fighting		305	40	80	76 35	
##	63	57		Fighting		455	65	105	60	
##	64	58	Growlithe	Fire		350	55	70	45	
##	65	59	Arcanine	Fire		555	90	110	80	
##	66	60	Poliwag	Water		300	40	50	40	
##	67	61	Poliwhirl	Water		385	65	65	65	
##	68	62	Poliwrath	Water	Fighting	510	90	95	95	
##	69	63	Abra	Psychic	0 0	310	25	20	15	
##	70	64	Kadabra	Psychic		400	40	35	30	
##	71	65	Alakazam	Psychic		500	55	50	45	
##	72	65	AlakazamMega Alakazam	Psychic		590	55	50	65	
##	73	66	Machop	${\tt Fighting}$		305	70	80	50	
##	74	67		Fighting		405	80	100	70	
##	75	68	<u>-</u>	Fighting		505	90	130	80	
##		69	Bellsprout	Grass	Poison	300	50	75	35	
##		70	Weepinbell	Grass	Poison	390	65	90	50	
##		71	Victreebel	Grass	Poison	490	80	105	65	
##		72	Tentacool	Water	Poison	335	40	40	35	
##		73	Tentacruel	Water	Poison	515	80	70	65	
##		74 75	Geodude	Rock	Ground	300	40	80	100	
##		75 76	Graveler	Rock	Ground	390	55	95	115	
##		76 77	Golem	Rock	Ground	495	80 50	120 85	130 55	
## ##		77 78	Ponyta Rapidash	Fire Fire		410 500	50 65	100	70	
##		79	slowpoke	Water	Psychic	315	90	65	70 65	
##		80	Slowbro	Water	Psychic	490	95	75	110	
##		80	SlowbroMega Slowbro	Water	Psychic	590	95	75 75	180	
##		81	Magnemite		Steel	325	25	35	70	
##		82	_	Electric	Steel	465	50	60	95	
	-								- -	

##	91	83	Farfetch'd	Normal	Flying	352	52	65	55
##	92	84	Doduo	Normal	Flying	310	35	85	45
##	93	85	Dodrio	Normal	Flying	460	60	110	70
##	94	86	Seel	Water		325	65	45	55
##	95	87	Dewgong	Water	Ice	475	90	70	80
##	96	88	Grimer	Poison		325	80	80	50
##	97	89	Muk	Poison		500	105	105	75
##	98	90	Shellder	Water		305	30	65	100
##	99	91	Cloyster	Water	Ice	525	50	95	180
##	100	92	Gastly	Ghost	Poison	310	30	35	30
##	101	93	Haunter	Ghost	Poison	405	45	50	45
##	102	94	Gengar	Ghost	Poison	500	60	65	60
##	103	94	GengarMega Gengar	Ghost	Poison	600	60	65	80
##	104	95	Onix	Rock	Ground	385	35	45	160
##	105	96	Drowzee	Psychic		328	60	48	45
##	106	97	Hypno	Psychic		483	85	73	70
##	107	98	Krabby	Water		325	30	105	90
##	108	99	Kingler	Water		475	55	130	115
##	109			Electric		330	40	30	50
	110		Electrode	_	Danah i a	480	60	50	70
##	111		Exeggcute	Grass	Psychic	325	60	40	80
##	112113		Exeggutor Cubone	Grass	Psychic	520	95 50	95 50	85 95
	114		Marowak	Ground Ground		320 425	60	80	110
##	115		Hitmonlee			455	50	120	53
##	116		Hitmonchan			455	50	105	79
##	117		Lickitung	Normal		385	90	55	75 75
##	118		Koffing	Poison		340	40	65	95
##	119		Weezing	Poison		490	65	90	120
##	120		Rhyhorn	Ground	Rock	345	80	85	95
##	121		Rhydon	Ground	Rock	485	105	130	120
##	122	113	Chansey	Normal		450		5	5
##	123	114	Tangela	Grass		435	65	55	115
##	124	115	Kangaskhan	Normal		490	105	95	80
##	125	115	KangaskhanMega Kangaskhan	Normal		590	105	125	100
	126		Horsea	Water		295	30	40	70
##	127	117	Seadra	Water		440	55	65	95
##	128	118	Goldeen	Water		320	45	67	60
##	129	119	Seaking	Water		450	80	92	65
##	130	120	Staryu	Water		340	30	45	55
	131		Starmie	Water	Psychic	520	60	75	85
	132		Mr. Mime	Psychic	Fairy	460	40	45	65
	133		Scyther	Bug	Flying	500	70	110	80
	134		Jynx	Ice	Psychic	455	65	50	35
	135		Electabuzz			490	65	83	57
	136		Magmar	Fire		495	65	95	57
	137		Pinsir	Bug		500	65	125	100
	138		PinsirMega Pinsir	Bug	Flying	600	65	155	120
	139		Tauros	Normal		490	75	100	95
	140		Magikarp	Water	ב ביקו	200	20	10	55 70
	141		Gyarados	Water	Flying	540	95 05	125	79 100
	142		GyaradosMega Gyarados	Water	Dark	640	95	155	109
	143		Lapras	Water	Ice	535		85 49	80
##	144	132	Ditto	Normal		288	48	48	48

##	145	133	Eeve	e Normal		325	55	55	50
	146		Vaporeo			525	130	65	60
##	147	135	-	n Electric		525	65	65	60
##	148	136	Flareo	n Fire		525	65	130	60
##	149	137	Porygo	n Normal		395	65	60	70
##	150	138	Omanyt	e Rock	Water	355	35	40	100
##	151	139	Omasta	r Rock	Water	495	70	60	125
##	152	140	Kabut	o Rock	Water	355	30	80	90
##	153	141	Kabutop	s Rock	Water	495	60	115	105
##	154	142	Aerodacty	l Rock	Flying	515	80	105	65
##	155	142	AerodactylMega Aerodacty	l Rock	Flying	615	80	135	85
##	156		Snorla	x Normal		540	160	110	65
##	157		Articun		, ,	580	90	85	100
##	158		=	s Electric		580	90	90	85
##	159		Moltre		, ,	580	90	100	90
##	160		Dratin	0		300	41	64	45
##	161		Dragonai	_		420	61	84	65
##	162		Dragonit	_		600	91	134	95
	163		Mewtw	J				110	90
##	164		MewtwoMega Mewtwo	=	Fighting	780	106	190	100
##	165		MewtwoMega Mewtwo	•		780	106	150	70
##	166		Me	3		600	100	100	100
##	167 168		Chikorit			318 405	45 60	49 62	65 80
##	169		Baylee			525	80	82	100
	170		Meganiu Cyndaqui			309	39	52	43
##	171		Quilav			405	58	64	4 3
##	172		Typhlosio			534	78	84	78
	173		Totodil			314	50	65	64
##	174		Crocona			405	65	80	80
	175		Feraligat			530	85	105	100
##	176		Sentre			215	35	46	34
##	177	162	Furre	t Normal		415	85	76	64
	178		Hoothoo	t Normal	Flying	262	60	30	30
##	179	164	Noctow	l Normal		442	100	50	50
##	180	165	Ledyb	a Bug	Flying	265	40	20	30
##	181	166	Ledia	n Bug	Flying	390	55	35	50
##	182	167	Spinara	k Bug	Poison	250	40	60	40
##	183	168	Ariado	s Bug	Poison	390	70	90	70
	184		Croba		, ,	535	85	90	80
	185		Chincho		Electric	330	75	38	38
	186		Lantur		Electric		125	58	58
	187			u Electric		205	20	40	15
	188		Cleff			218	50	25	28
	189		Igglybuf		•	210	90	30	15
	190		Togep	=		245	35	20	65
	191		Togeti	•	, ,	405	55	40	85
	192		Nat	•		320	40	50	45
	193		Xat	•		470	65 EE	75 40	70
	194			p Electric		280	55 70	40	40
	195			y Electric		365 510	70	55 75	55 85
	196			s Electric		510 610	90	75 95	85 105
	197 198		AmpharosMega Ampharo Bellosso			610 490	90 75	95 80	105 95
##	130	102	Dellosso	m Grass		490	15	00	90

	199		Marill	Water	Fairy	250	70	20	50
	200		Azumarill	Water	Fairy	420	100	50	80
	201		Sudowoodo	Rock		410	70	100	115
##	202		Politoed	Water		500	90	75	75
##	203		Hoppip	Grass	Flying	250	35	35	40
##	204		Skiploom	Grass	Flying	340	55	45	50
##	205		Jumpluff	Grass	Flying	460	75	55	70
##	206		Aipom	Normal		360	55	70	55
##	207		Sunkern	Grass		180	30	30	30
##	208		Sunflora	Grass		425	75	75	55
##	209		Yanma	Bug	Flying	390	65	65	45
##	210		Wooper	Water	Ground	210	55	45	45
##	211		Quagsire	Water	Ground	430	95	85	85
	212		Espeon	Psychic		525	65	65	60
	213		Umbreon	Dark		525	95	65	110
	214		Murkrow	Dark	Flying	405	60	85 75	42
	215216		Slowking	Water	Psychic	490	95 60	75	80
	217		Misdreavus	Ghost		435 336	48	60 72	60 48
	217		Unown Wobbuffet	Psychic		405		33	40 58
	219		Girafarig	Psychic Normal	Darrehie	455	70	33 80	65
	220		Pineco	Bug	Psychic	290	50	65	90
	221		Forretress	Bug	Steel	465	75	90	140
	222			Normal	preel	415	100	70	70
	223		Dunsparce Gligar	Ground	Flying	430	65	75	105
	224		Steelix	Steel	Ground	510	75	85	200
	225		SteelixMega Steelix	Steel	Ground	610	75	125	230
	226		Snubbull	Fairy	V	300	60	80	50
	227		Granbull	Fairy		450	90	120	75
##	228	211	Qwilfish	Water	Poison	430	65	95	75
##	229	212	Scizor	Bug	Steel	500	70	130	100
##	230	212	ScizorMega Scizor	Bug	Steel	600	70	150	140
##	231	213	Shuckle	Bug	Rock	505	20	10	230
##	232	214	Heracross	Bug	Fighting	500	80	125	75
##	233	214	HeracrossMega Heracross	Bug	Fighting	600	80	185	115
##	234	215	Sneasel	Dark	Ice	430	55	95	55
##	235	216	Teddiursa	Normal		330	60	80	50
##	236	217	Ursaring	Normal		500	90	130	75
##	237	218	Slugma	Fire		250	40	40	40
##	238	219	Magcargo	Fire	Rock	410	50	50	120
	239		Swinub	Ice	Ground	250	50	50	40
	240		Piloswine	Ice	Ground	450		100	80
	241		Corsola	Water	Rock	380	55	55	85
	242		Remoraid	Water		300	35	65	35
	243		Octillery	Water		480	75	105	75
	244		Delibird	Ice	Flying	330	45	55	45
	245		Mantine	Water	Flying	465	65	40	70
	246		Skarmory	Steel	Flying	465	65	80	140
	247		Houndour	Dark	Fire	330	45	60	30
	248		Houndoom	Dark	Fire	500	75	90	50
	249		HoundoomMega Houndoom	Dark	Fire	600 E40	75 75	90 05	90 05
	250		Kingdra	Water	Dragon	540	75	95 60	95 60
	251		Phanpy	Ground		330	90	60 120	60 120
##	252	232	Donphan	Ground		500	90	120	120

	253		Porygon2	Normal		515	85	80	90
	254		Stantler	Normal		465	73	95	62
	255		Smeargle	Normal		250	55	20	35
	256			Fighting		210	35	35	35
	257		Hitmontop	Fighting		455	50	95	95
##	258	238	Smoochum	Ice	Psychic	305	45	30	15
##	259	239	Elekid	Electric		360	45	63	37
##	260	240	Magby	Fire		365	45	75	37
##	261	241	Miltank	Normal		490	95	80	105
##	262	242	Blissey	Normal		540	255	10	10
##	263	243	Raikou	Electric		580	90	85	75
##	264	244	Entei	Fire		580	115	115	85
##	265	245	Suicune	Water		580	100	75	115
##	266	246	Larvitar	Rock	Ground	300	50	64	50
##	267	247	Pupitar	Rock	Ground	410	70	84	70
##	268	248	Tyranitar	Rock	Dark	600	100	134	110
##	269	248	TyranitarMega Tyranitar	Rock	Dark	700	100	164	150
##	270	249	Lugia	•	Flying	680	106	90	130
##	271	250	Ho-oh	Fire	Flying	680	106	130	90
##	272	251	Celebi	Psychic	Grass	600	100	100	100
##	273	252	Treecko	Grass		310	40	45	35
##	274	253	Grovyle	Grass		405	50	65	45
##	275	254	Sceptile	Grass		530	70	85	65
##	276	254	SceptileMega Sceptile	Grass	Dragon	630	70	110	75
##	277	255	Torchic	Fire		310	45	60	40
##	278	256	Combusken	Fire	Fighting	405	60	85	60
##	279	257	Blaziken	Fire	${\tt Fighting}$	530	80	120	70
##	280	257	BlazikenMega Blaziken	Fire	${\tt Fighting}$	630	80	160	80
##	281	258	Mudkip	Water		310	50	70	50
##	282	259	Marshtomp	Water	Ground	405	70	85	70
##	283	260	Swampert	Water	Ground	535	100	110	90
##	284	260	SwampertMega Swampert	Water	Ground	635	100	150	110
##	285	261	Poochyena	Dark		220	35	55	35
##	286	262	Mightyena	Dark		420	70	90	70
##	287	263	Zigzagoon	Normal		240	38	30	41
##	288	264	Linoone	Normal		420	78	70	61
##	289	265	Wurmple	Bug		195	45	45	35
	290		Silcoon	Bug		205	50	35	55
	291		Beautifly	_	Flying	395	60	70	50
	292		Cascoon	Bug		205	50	35	55
	293		Dustox	Bug	Poison	385	60	50	70
	294		Lotad	Water	Grass	220	40	30	30
	295		Lombre	Water	Grass	340	60	50	50
	296		Ludicolo	Water	Grass	480	80	70	70
	297		Seedot	Grass		220	40	40	50
	298		Nuzleaf	Grass	Dark	340	70	70	40
	299		Shiftry	Grass	Dark	480	90	100	60
	300		Taillow	Normal	Flying	270	40	55	30
	301		Swellow	Normal	Flying	430	60	85	60
	302		Wingull	Water	Flying	270	40	30	30
##	303	279	Pelipper	Water	Flying	430	60	50	100
##	304	280	Ralts	Psychic	Fairy	198	28	25	25
##	305	281	Kirlia	Psychic	Fairy	278	38	35	35
##	306	282	Gardevoir	Psychic	Fairy	518	68	65	65

	307		GardevoirMega Gardevoir	Psychic	Fairy	618	68	85	65
	308		Surskit	Bug	Water	269	40	30	32
	309		Masquerain	Bug	Flying	414	70	60	62
	310		Shroomish			295	60	40	60
	311		Breloom		Fighting	460	60	130	80
	312		Slakoth	Normal		280	60	60	60
	313		Vigoroth	Normal		440	80	80	80
	314		Slaking			670	150	160	100
	315		Nincada	U	Ground	266	31	45	90
	316		Ninjask	Bug	Flying	456	61	90	45
	317		Shedinja	Bug	Ghost	236	1	90	45
	318		Whismur	Normal		240	64	51	23
	319		Loudred	Normal		360	84	71	43
##	320		Exploud	Normal			104	91	63
##	321			Fighting		237	72	60	30
##	322	297	Hariyama	Fighting		474	144	120	60
	323		Azurill	Normal	Fairy	190	50	20	40
	324		Nosepass	Rock		375	30	45	135
	325		Skitty			260	50	45	45
##	326	301	Delcatty	Normal		380	70	65	65
	327		Sableye	Dark	Ghost	380	50	75	75
##	328	302	SableyeMega Sableye	Dark	Ghost	480	50	85	125
##	329	303	Mawile	Steel	Fairy	380	50	85	85
##	330	303	MawileMega Mawile	Steel	Fairy	480	50	105	125
##	331	304	Aron	Steel	Rock	330	50	70	100
##	332	305	Lairon	Steel	Rock	430	60	90	140
##	333	306	Aggron	Steel	Rock	530	70	110	180
##	334	306	AggronMega Aggron	Steel		630	70	140	230
##	335	307	Meditite	Fighting	Psychic	280	30	40	55
##	336	308	Medicham	Fighting	Psychic	410	60	60	75
##	337	308	MedichamMega Medicham	Fighting	Psychic	510	60	100	85
##	338	309	Electrike	Electric		295	40	45	40
##	339	310	Manectric	Electric		475	70	75	60
##	340	310	ManectricMega Manectric	Electric		575	70	75	80
##	341	311	Plusle	Electric		405	60	50	40
##	342	312	Minun	Electric		405	60	40	50
##	343	313	Volbeat	Bug		400	65	73	55
##	344	314	Illumise	Bug		400	65	47	55
	345		Roselia		Poison	400	50	60	45
##	346	316	Gulpin	Poison		302	70	43	53
##	347	317	Swalot	Poison		467	100	73	83
##	348	318	Carvanha	Water	Dark	305	45	90	20
##	349	319	Sharpedo	Water	Dark	460	70	120	40
##	350	319	SharpedoMega Sharpedo	Water	Dark	560	70	140	70
##	351	320	Wailmer	Water		400	130	70	35
##	352	321	Wailord	Water		500	170	90	45
##	353	322	Numel	Fire	Ground	305	60	60	40
##	354	323	Camerupt	Fire	Ground	460	70	100	70
##	355	323	CameruptMega Camerupt	Fire	Ground	560	70	120	100
##	356	324	Torkoal	Fire		470	70	85	140
##	357	325	Spoink	Psychic		330	60	25	35
##	358	326	Grumpig	Psychic		470	80	45	65
##	359	327	Spinda	Normal		360	60	60	60
##	360	328	Trapinch	Ground		290	45	100	45

	361 3		Vibrava	Ground	Dragon	340	50	70	50
	362		Flygon	Ground	Dragon	520	80	100	80
	363		Cacnea	Grass		335	50	85	40
##	364		Cacturne	Grass	Dark	475	70	115	60
##	365		Swablu	Normal	Flying	310	45	40	60
##	366		Altaria	Dragon	Flying	490	75	70	90
##	367		AltariaMega Altaria	Dragon	Fairy	590	75	110	110
##	368		Zangoose	Normal		458	73	115	60
##	369		Seviper	Poison		458	73	100	60
##	370		Lunatone	Rock	Psychic	440	70	55	65
##	371		Solrock	Rock	Psychic	440	70	95	85
##	372		Barboach	Water	Ground	288	50	48	43
##	373		Whiscash	Water	Ground	468	110	78	73
##	374		Corphish	Water		308	43	80	65
##	375		Crawdaunt	Water	Dark	468	63	120	85
##	376		Baltoy	Ground	Psychic	300	40	40	55
##	377		Claydol	Ground	Psychic	500	60	70	105
##	378		Lileep	Rock	Grass	355	66	41	77
##	379		Cradily	Rock	Grass	495	86	81	97
##	380 3		Anorith	Rock	Bug	355	45	95	50
##	381 3		Armaldo	Rock	Bug	495	75	125	100
##	382 3		Feebas	Water		200	20	15	20
##	383		Milotic	Water		540	95	60	79
##	384		Castform	Normal		420	70	70	70
##	385	352	Kecleon	Normal		440	60	90	70
##	386		Shuppet	Ghost		295	44	75	35
##	387		Banette	Ghost		455	64	115	65
##	388 3		BanetteMega Banette	Ghost		555	64	165	75
##	389		Duskull	Ghost		295	20	40	90
##	390 3		Dusclops	Ghost		455	40	70	130
##	391		Tropius	Grass	Flying	460	99	68	83
##	392		Chimecho	Psychic		425	65	50	70
##	393		Absol	Dark		465	65	130	60
##	394		AbsolMega Absol	Dark		565	65	150	60
##	395		Wynaut	Psychic		260	95	23	48
##	396		Snorunt	Ice		300	50	50	50
	397		Glalie	Ice		480	80	80	80
	398 3		GlalieMega Glalie	Ice		580	80	120	80
	399 3		Spheal	Ice	Water	290	70	40	50
	400 3		Sealeo	Ice	Water	410	90	60	70
##	401 3		Walrein	Ice	Water	530		80	90
	402 3		Clamperl	Water		345	35	64	85
##	403 3		Huntail	Water		485	55	104	105
##	404 3		Gorebyss	Water		485	55	84	105
##	405		Relicanth	Water	Rock	485		90	130
##	406		Luvdisc	Water		330	43	30	55
##	407 3		Bagon	Dragon		300	45	75	60
##	408 3		Shelgon	Dragon		420	65	95	100
##	409 3		Salamence	Dragon	Flying	600	95	135	80
##	410 3		SalamenceMega Salamence	Dragon	Flying	700	95	145	130
	411 3		Beldum	Steel	Psychic	300	40	55	80
	412 3		Metang	Steel	Psychic	420	60	75	100
	413		Metagross	Steel	Psychic	600	80	135	130
##	414	376	MetagrossMega Metagross	Steel	Psychic	700	80	145	150

	445	077	D : 1	ъ 1		F00	00	400	000
	415		Regirock			580	80	100	200
	416		Regice	Ice		580	80	50	100
	417		Registeel		ъ .	580	80	75	150
	418		Latias	Dragon	Psychic	600	80	80	90
	419		LatiasMega Latias	Dragon	Psychic	700	80	100	120
	420		Latios	Dragon	Psychic	600	80	90	80
	421		LatiosMega Latios	Dragon	Psychic	700	80	130	100
	422		Kyogre	Water		670	100	100	90
	423		KyogrePrimal Kyogre	Water		770	100	150	90
	424		Groudon			670	100	150	140
	425		GroudonPrimal Groudon		Fire	770	100	180	160
	426		Rayquaza	_	Flying	680	105	150	90
	427		RayquazaMega Rayquaza	_	Flying	780	105	180	100
	428		Jirachi	Steel	Psychic	600	100	100	100
	429		DeoxysNormal Forme	•		600	50	150	50
	430		DeoxysAttack Forme	Psychic		600	50	180	20
	431		DeoxysDefense Forme	Psychic		600	50	70	160
	432		DeoxysSpeed Forme			600	50	95	90
	433		Turtwig			318	55	68	64
	434		Grotle			405	75	89	85
	435		Torterra	Grass	Ground	525	95	109	105
	436		Chimchar			309	44	58	44
	437		Monferno		${\tt Fighting}$	405	64	78	52
##	438	392	Infernape	Fire	Fighting	534	76	104	71
##	439	393	Piplup			314	53	51	53
##	440	394	Prinplup			405	64	66	68
##	441	395	Empoleon	Water	Steel	530	84	86	88
##	442	396	Starly	Normal	Flying	245	40	55	30
##	443	397	Staravia	Normal	Flying	340	55	75	50
##	444	398	Staraptor	Normal	Flying	485	85	120	70
##	445	399	Bidoof	Normal		250	59	45	40
##	446	400	Bibarel	Normal	Water	410	79	85	60
##	447	401	Kricketot	Bug		194	37	25	41
##	448	402	Kricketune	Bug		384	77	85	51
##	449	403	Shinx	Electric		263	45	65	34
##	450	404	Luxio	Electric		363	60	85	49
	451		<u> </u>	Electric		523	80	120	79
##	452	406	Budew	Grass	Poison	280	40	30	35
##	453	407	Roserade	Grass	Poison	515	60	70	65
##	454	408	Cranidos	Rock		350	67	125	40
	455		Rampardos	Rock		495	97	165	60
##	456	410	Shieldon	Rock	Steel	350	30	42	118
##	457	411	Bastiodon	Rock	Steel	495	60	52	168
##	458	412	Burmy			224	40	29	45
##	459	413	WormadamPlant Cloak	O	Grass	424	60	59	85
##	460	413	WormadamSandy Cloak	Bug	Ground	424	60	79	105
##	461	413	WormadamTrash Cloak	Bug	Steel	424	60	69	95
##	462	414	Mothim	Bug	Flying	424	70	94	50
##	463	415	Combee	Bug	Flying	244	30	30	42
##	464	416	Vespiquen	Bug	Flying	474	70	80	102
##	465	417	Pachirisu	Electric		405	60	45	70
##	466	418	Buizel	Water		330	55	65	35
##	467	419	Floatzel	Water		495	85	105	55
##	468	420	Cherubi	Grass		275	45	35	45

	469		Cherrim	Grass		450	70	60	70
	470		Shellos	Water		325	76	48	48
	471		Gastrodon	Water	Ground	475	111	83	68
	472		Ambipom	Normal		482	75	100	66
	473		Drifloon	Ghost	Flying	348	90	50	34
	474		Drifblim	Ghost	Flying	498		80	44
	475		Buneary	Normal		350	55	66	44
	476		Lopunny	Normal		480	65	76	84
	477		LopunnyMega Lopunny		Fighting	580	65	136	94
	478		Mismagius	Ghost		495	60	60	60
	479		Honchkrow	Dark	Flying	505	100	125	52
	480		Glameow	Normal		310	49	55	42
	481		Purugly	Normal		452	71	82	64
	482		Chingling	Psychic		285	45	30	50
	483		Stunky	Poison	Dark	329	63	63	47
	484		Skuntank	Poison	Dark	479	103	93	67
	485		Bronzor	Steel	Psychic	300	57	24	86
	486		Bronzong	Steel	Psychic	500	67	89	116
	487		Bonsly	Rock	.	290	50	80	95
##	488		Mime Jr.	Psychic	Fairy	310	20	25	45
##	489		Happiny	Normal		220	100	5	5
##	490		Chatot	Normal	Flying	411	76	65	45
##	491		Spiritomb	Ghost	Dark	485	50	92	108
##	492		Gible	Dragon	Ground	300	58	70	45
	493		Gabite	Dragon	Ground	410	68	90	65
##	494		Garchomp	Dragon	Ground		108	130	95
##	495		GarchompMega Garchomp	Dragon	Ground	700	108	170	115
##	496		Munchlax	Normal		390	135	85	40
##	497			Fighting	Q. 1	285	40	70	40
##	498			Fighting	Steel	525	70	110	70
##	499		LucarioMega Lucario	- I	Steel	625	70	145	88
##	500		Hippopotas	Ground		330	68	72	78
##	501		Hippowdon	Ground	D.,	525	108	112	118
##	502		Skorupi	Poison	Bug	330	40	50	90
##	503 504		Drapion		Dark	500 300	70 48	90 61	110 40
	505		Croagunk Toxicroak		Fighting Fighting	490	83	106	65
	506		Carnivine	Grass	Lighten	454	74	100	72
	507		Finneon	Water		330	49	49	56
	508		Lumineon			460	69	69	76
	509		Mantyke	Water	Flying	345	45	20	50
	510		Snover	Grass	Ice	334	60	62	50
	511		Abomasnow	Grass	Ice	494	90	92	75
	512		AbomasnowMega Abomasnow	Grass	Ice	594	90	132	105
	513		Weavile	Dark	Ice	510	70	120	65
	514		Magnezone		Steel	535	70	70	115
	515		Lickilicky	Normal	50001		110	85	95
	516		Rhyperior		Rock		115	140	130
	517		Tangrowth	Grass	100 011		100	100	125
	518		Electivire			540	75	123	67
	519		Magmortar	Fire		540	75	95	67
	520		Togekiss	Fairy	Flying	545	85	50	95
	521		Yanmega	Bug	Flying	515	86	76	86
	522		Leafeon	Grass	-J 0	525	65	110	130
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##	523	471	Glaceon	Ice		525	65	60	110
	524		Gliscor	Ground	Flying	510	75	95	125
	525		Mamoswine	Ice	Ground	530	110	130	80
	526		Porygon-Z	Normal	diodila	535	85	80	70
	527		Gallade		Fighting	518	68	125	65
	528		GalladeMega Gallade	=	Fighting	618	68	165	95
	529		Probopass	Rock	Steel	525	60	55	145
	530		Dusknoir	Ghost	50001	525	45	100	135
##	531		Froslass	Ice	Ghost	480	70	80	70
##	532			Electric	Ghost	440	50	50	77
##	533		RotomHeat Rotom		Fire	520	50	65	107
##	534		RotomWash Rotom		Water	520	50	65	107
##	535		RotomFrost Rotom		Ice	520	50	65	107
##	536		RotomFan Rotom		Flying	520	50	65	107
##	537		RotomMow Rotom		Grass	520	50	65	107
##	538		Uxie	Psychic	dI dDD	580	75	75	130
##	539		Mesprit	Psychic		580	80	105	105
##	540		Azelf	Psychic		580	75	125	70
	541		Dialga		Dragon	680	100	120	120
	542		Palkia	Water	Dragon	680	90	120	100
	543		Heatran	Fire	Steel	600	91	90	106
##	544		Regigigas	Normal			110	160	110
##	545	487	GiratinaAltered Forme	Ghost	Dragon		150	100	120
##	546		GiratinaOrigin Forme	Ghost	Dragon		150	120	100
##	547		Cresselia	Psychic	. 6		120	70	120
##	548		Phione	Water		480	80	80	80
##	549	490	Manaphy	Water		600	100	100	100
##	550	491	Darkrai	Dark		600	70	90	90
##	551	492	ShayminLand Forme	Grass		600	100	100	100
##	552	492	ShayminSky Forme	Grass	Flying	600	100	103	75
##	553	493	Arceus	Normal	, ,	720	120	120	120
##	554	494	Victini	Psychic	Fire	600	100	100	100
##	555	495	Snivy	Grass		308	45	45	55
##	556	496	Servine	Grass		413	60	60	75
##	557	497	Serperior	Grass		528	75	75	95
##	558	498	Tepig	Fire		308	65	63	45
##	559	499	Pignite	Fire	Fighting	418	90	93	55
##	560	500	Emboar	Fire	Fighting	528	110	123	65
##	561	501	Oshawott	Water		308	55	55	45
##	562	502	Dewott	Water		413	75	75	60
##	563	503	Samurott	Water		528	95	100	85
	564		Patrat	Normal		255	45	55	39
##	565		Watchog			420	60	85	69
##	566		Lillipup			275	45	60	45
##	567		Herdier			370	65	80	65
##	568		Stoutland			500	85	110	90
##	569		Purrloin			281	41	50	37
##	570		Liepard			446	64	88	50
##	571		Pansage	Grass		316	50	53	48
##	572		Simisage			498	75	98	63
##	573		Pansear	Fire		316	50	53	48
	574		Simisear	Fire		498	75	98	63
	575		Panpour	Water		316	50	53	48
##	576	516	Simipour	Water		498	75	98	63

	577		Munna	Psychic		292	76	25	45
##	578		Musharna	Psychic		487		55	85
##	579		Pidove	Normal	Flying	264	50	55	50
##	580		Tranquill	Normal	Flying	358	62	77	62
##	581		Unfezant	Normal	Flying	488	80	115	80
##	582			Electric		295	45	60	32
##	583		Zebstrika	Electric		497	75	100	63
##	584		Roggenrola	Rock		280	55	75	85
##	585		Boldore	Rock		390	70	105	105
##	586		Gigalith	Rock		515	85	135	130
##	587		Woobat	Psychic	Flying	313	55	45	43
##	588		Swoobat	Psychic	Flying	425	67	57	55
##	589		Drilbur	Ground		328	60	85	40
##	590		Excadrill	Ground	Steel		110	135	60
##	591		Audino	Normal		445	103	60	86
##	592		AudinoMega Audino	Normal	Fairy	545	103	60	126
##	593			Fighting		305	75	80	55
##	594			Fighting		405	85	105	85
##	595		Conkeldurr	Fighting		505	105	140	95
##	596		Tympole	Water		294	50	50	40
##	597		Palpitoad	Water	Ground	384	75	65	55
##	598		Seismitoad	Water	Ground	509	105	95	75
##	599		Throh	Fighting			120	100	85
##	600		Sawk	Fighting		465	75	125	75
##	601	540	Sewaddle	Bug	Grass	310	45	53	70
##	602	541	Swadloon	Bug	Grass	380	55	63	90
##	603	542	Leavanny	Bug	Grass	500	75	103	80
##	604	543	Venipede	Bug	Poison	260	30	45	59
##	605	544	Whirlipede	Bug	Poison	360	40	55	99
##	606	545	Scolipede	Bug	Poison	485	60	100	89
##	607	546	Cottonee	Grass	Fairy	280	40	27	60
##	608		Whimsicott	Grass	Fairy	480	60	67	85
##	609		Petilil	Grass		280	45	35	50
##	610		Lilligant	Grass		480	70	60	75
##	611		Basculin	Water		460	70	92	65
##	612		Sandile	Ground	Dark	292	50	72	35
	613		Krokorok	Ground	Dark	351	60	82	45
	614		Krookodile	Ground	Dark	519	95	117	80
	615		Darumaka	Fire		315	70	90	45
	616		DarmanitanStandard Mode	Fire			105	140	55
	617		DarmanitanZen Mode	Fire	Psychic		105	30	105
	618		Maractus	Grass		461	75	86	67
	619		Dwebble	Bug	Rock	325	50	65	85
	620		Crustle	Bug	Rock	475	70	95	125
	621		Scraggy		Fighting	348	50	75	70
	622		Scrafty		Fighting	488	65	90	115
	623		Sigilyph		Flying	490	72	58	80
	624		Yamask	Ghost		303	38	30	85 145
	625		Cofagrigus	Ghost	ъ.	483	58	50	145
	626		Tirtouga		Rock	355	54	78	103
	627		Carracosta		Rock	495	74 55	108	133
	628		Archen		Flying	401	55	112	45
	629		Archeops	Rock	Flying	567	75	140	65
##	630	568	Trubbish	Poison		329	50	50	62

	631		Garbodor			474	80	95	82
	632		Zorua			330	40	65	40
	633		Zoroark			510	60	105	60
	634		Minccino	Normal		300	55	50	40
	635		Cinccinc			470	75	95	60
	636		Gothita	3		290	45	30	50
##	637	575	Gothorita	Psychic		390	60	45	70
##	638	576	Gothitelle	Psychic		490	70	55	95
	639		Solosis	J		290	45	30	40
	640		Duosior	•		370	65	40	50
	641		Reuniclus	•			110	65	75
	642		Ducklett	Water	, ,	305	62	44	50
##	643	581	Swanna	Water	Flying	473	75	87	63
##	644	582	Vanillite	Ice		305	36	50	50
##	645	583	Vanillish	Ice		395	51	65	65
##	646	584	Vanilluxe	Ice		535	71	95	85
##	647	585	Deerling	Normal	Grass	335	60	60	50
##	648	586	Sawsbuck	Normal	Grass	475	80	100	70
##	649	587	Emolga	Electric	Flying	428	55	75	60
##	650	588	Karrablast	Bug		315	50	75	45
##	651	589	Escavalier	Bug	Steel	495	70	135	105
##	652	590	Foongus	Grass	Poison	294	69	55	45
##	653	591	Amoonguss	Grass	Poison	464	114	85	70
##	654	592	Frillish	Water	Ghost	335	55	40	50
##	655	593	Jellicent	Water	Ghost	480	100	60	70
##	656	594	Alomomola	Water		470	165	75	80
##	657	595	Joltik		Electric	319	50	47	50
##	658	596	Galvantula	Bug	Electric	472	70	77	60
##	659	597	Ferroseed	Grass	Steel	305	44	50	91
##	660	598	Ferrothorn	Grass	Steel	489	74	94	131
##	661	599	Klink	Steel		300	40	55	70
##	662	600	Klang	Steel		440	60	80	95
##	663	601	Klinklang	Steel		520	60	100	115
##	664	602	Tynamo	Electric		275	35	55	40
##	665	603	Eelektrik	Electric		405	65	85	70
##	666	604	Eelektross	Electric		515	85	115	80
##	667	605	Elgyen			335	55	55	55
##	668	606	Beheeyen	Psychic		485	75	75	75
##	669	607	Litwick	Ghost	Fire	275	50	30	55
##	670	608	Lampent	Ghost	Fire	370	60	40	60
##	671	609	Chandelure	Ghost	Fire	520	60	55	90
##	672	610	Axev	Dragon		320	46	87	60
##	673	611	Fraxure	Dragon		410	66	117	70
##	674	612	Haxorus	Dragon		540	76	147	90
##	675	613	Cubchoo	Ice		305	55	70	40
##	676	614	Beartic	Ice		485	95	110	80
##	677	615	Cryogonal	Ice		485	70	50	30
##	678	616	Shelmet	Bug		305	50	40	85
##	679	617	Accelgor	Bug		495	80	70	40
##	680	618	Stunfisk	Ground	Electric	471	109	66	84
##	681	619	Mienfoo	Fighting		350	45	85	50
##	682	620	Mienshao	Fighting		510	65	125	60
##	683	621	Druddigor	Dragon		485	77	120	90
##	684	622	Golett	Ground	Ghost	303	59	74	50

##	685	623	Golurk	Ground	Ghost	483	89	124	80
	686		Pawniard	Dark	Steel	340	45	85	70
	687		Bisharp	Dark	Steel	490	65	125	100
	688		Bouffalant	Normal	DUCCI	490	95	110	95
	689		Rufflet	Normal	Flying	350	70	83	50
	690		Braviary	Normal	Flying	510	100	123	75
	691		Vullaby	Dark	Flying	370	70	55	75
	692		Mandibuzz	Dark	Flying	510	110	65	105
	693		Heatmor	Fire	,8	484	85	97	66
##	694	632	Durant	Bug	Steel	484	58	109	112
##	695	633	Deino	Dark	Dragon	300	52	65	50
##	696	634	Zweilous	Dark	Dragon	420	72	85	70
##	697	635	Hydreigon	Dark	Dragon	600	92	105	90
##	698	636	Larvesta	Bug	Fire	360	55	85	55
##	699	637	Volcarona	Bug	Fire	550	85	60	65
##	700	638	Cobalion	_	Fighting	580	91	90	129
##	701	639	Terrakion	Rock	Fighting	580	91	129	90
##	702	640	Virizion	Grass	Fighting	580	91	90	72
##	703	641	TornadusIncarnate Forme	Flying		580	79	115	70
##	704	641	TornadusTherian Forme	Flying		580	79	100	80
##	705	642	ThundurusIncarnate Forme	Electric	Flying	580	79	115	70
##	706	642	ThundurusTherian Forme	Electric	Flying	580	79	105	70
##	707	643	Reshiram	Dragon	Fire	680	100	120	100
##	708	644	Zekrom	Dragon	${\tt Electric}$	680	100	150	120
##	709	645	LandorusIncarnate Forme	Ground	Flying	600	89	125	90
##	710	645	LandorusTherian Forme	Ground	Flying	600	89	145	90
##	711	646	Kyurem	Dragon	Ice	660	125	130	90
##	712	646	KyuremBlack Kyurem	Dragon	Ice	700	125	170	100
##	713	646	KyuremWhite Kyurem	Dragon	Ice	700	125	120	90
##	714	647	KeldeoOrdinary Forme	Water	Fighting	580	91	72	90
##	715	647	KeldeoResolute Forme		Fighting	580	91	72	90
##	716		MeloettaAria Forme	Normal	Psychic	600	100	77	77
##	717		MeloettaPirouette Forme		Fighting	600	100	128	90
##	718		Genesect	Bug	Steel	600	71	120	95
	719		Chespin	Grass		313	56	61	65
##	720		Quilladin	Grass		405	61	78	95
	721		Chesnaught		Fighting	530	88	107	122
	722		Fennekin	Fire		307	40	45	40
	723		Braixen		D 1.	409	59	59	58
	724		Delphox		Psychic	534	75	69	72
	725		Froakie			314	41	56	40
	726		Frogadier		D1-	405	54	63	52
	727		Greninja		Dark	530	72	95 36	67
	728		Bunnelby		C d	237	38	36	38
	729 730		Diggersby		Ground	423	85 45	56 50	77
	731		Fletchling Fletchinder		Flying Flying	278 382	62	73	43 55
	732		Talonflame			499	78	81	71
	733		Scatterbug		Flying	200	38	35	40
	734		Scatterbug Spewpa	_		213	36 45	35 22	40 60
	735		Vivillon	_	Flying	411	80	52 52	50
	736		Litleo	_	Normal	369	62	50	58
	737		Pyroar		Normal	507	86	68	72
	738		Flabébé		MOTIMAL	303	44	38	39
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	739	670	Floette	Fairy		371	54	45	47
	740		Florges	=		552	78	65	68
	741		Skiddo	Grass		350	66	65	48
	742		Gogoat	Grass		531	123	100	62
##	743	674		Fighting		348	67	82	62
##	744	675	Pangoro	Fighting	Dark	495	95	124	78
##	745	676	Furfrou	Normal		472	75	80	60
##	746	677	Espurr	-		355	62	48	54
##	747	678	MeowsticMale	Psychic		466	74	48	76
##	748	678	MeowsticFemale	J		466	74	48	76
##	749	679	Honedge	Steel	Ghost	325	45	80	100
##	750	680	Doublade	Steel	Ghost	448	59	110	150
##	751	681	AegislashBlade Forme	Steel	Ghost	520	60	150	50
##	752	681	AegislashShield Forme	Steel	Ghost	520	60	50	150
##	753	682	Spritzee	Fairy		341	78	52	60
##	754	683	Aromatisse	Fairy		462	101	72	72
##	755	684	Swirlix	Fairy		341	62	48	66
##	756	685	Slurpuff	Fairy		480	82	80	86
##	757	686	Inkay	Dark	Psychic	288	53	54	53
##	758	687	Malamar	Dark	Psychic	482	86	92	88
##	759	688	Binacle	Rock	Water	306	42	52	67
##	760	689	Barbaracle	Rock	Water	500	72	105	115
##	761	690	Skrelp	Poison	Water	320	50	60	60
##	762	691	Dragalge	Poison	Dragon	494	65	75	90
##	763	692	Clauncher	Water		330	50	53	62
##	764	693	Clawitzer	Water		500	71	73	88
##	765	694	Helioptile	Electric	Normal	289	44	38	33
##	766	695	Heliolisk	Electric	Normal	481	62	55	52
##	767	696	Tyrunt	Rock	Dragon	362	58	89	77
##	768	697	Tyrantrum	Rock	Dragon	521	82	121	119
##	769	698	Amaura	Rock	Ice	362	77	59	50
##	770	699	Aurorus	Rock	Ice	521	123	77	72
##	771	700	Sylveon	•		525	95	65	65
##	772	701	Hawlucha	Fighting	Flying	500	78	92	75
##	773	702	Dedenne	Electric	Fairy	431	67	58	57
##	774	703	Carbink	Rock	Fairy	500	50	50	150
	775		Goomy	Dragon		300	45	50	35
	776		Sliggoo	Dragon		452	68	75	53
##	777		Goodra	Dragon		600	90	100	70
##	778		Klefki	Steel	Fairy	470	57	80	91
##	779	708	Phantump	Ghost	Grass	309	43	70	48
##	780	709	Trevenant	Ghost	Grass	474	85	110	76
##	781		PumpkabooAverage Size	Ghost	Grass	335	49	66	70
##	782		PumpkabooSmall Size	Ghost	Grass	335	44	66	70
##	783		PumpkabooLarge Size	Ghost	Grass	335	54	66	70
##	784	710	PumpkabooSuper Size	Ghost	Grass	335	59	66	70
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##	788		GourgeistSuper Size	Ghost	Grass	494	85	100	122
##	789		Bergmite	Ice		304	55	69	85
##	790		Avalugg	Ice		514	95	117	184
##	791		Noibat	Flying	Dragon	245	40	30	35
##	792	715	Noivern	Flying	Dragon	535	85	70	80

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	793				Xerneas		airy		680		131	95
	794		-	1 5	Yveltal		Dark	Flying	680		131	95
	795		Zyg	gardes	% Forme		agon	Ground	600		100	121
	796		D:	: -M	Diancie		Rock	Fairy	600	50	100	150
	797				Diancie		Rock	Fairy	700	50	160	110 60
	798				Confined Unbound	-	chic	Ghost	600	80	110	60
	799 800		поора	_	olcanion	-	chic Fire	Dark Water	680 600	80 80	160 110	120
##	800		Cn Dof		Generati				000	80	110	120
##	1	65	65	speed 45	Generati	1	egenda Fal	-				
##		80	80	60		1	Fal					
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## ##	1	x 1	name Bulbasaur	type_1 Grass	type_2 Poison	318	пр 45	attack 49	defense 49	
	2	2		Grass	Poison	405	60	62	63	
	3	3	Ivysaur Venusaur	Grass	Poison	525	80	82	83	
	4	3	VenusaurMega Venusaur	Grass	Poison	625	80	100	123	
	5	4	Charmander	Fire	1015011	309	39	52	43	
	6	5	Charmeleon	Fire		405	58	64	58	
##		6	Charizard	Fire	Flying	534	78	84	78	
##		6	CharizardMega Charizard X	Fire	Dragon	634	78	130	111	
	9	6	CharizardMega Charizard Y	Fire	Flying	634	78	104	78	
	10	7	Squirtle	Water	1 - 1 - 11-16	314	44	48	65	
	11	8	Wartortle	Water		405	59	63	80	
	12	9	Blastoise	Water		530	79	83	100	
	13	9	BlastoiseMega Blastoise	Water		630	79	103	120	
	14	10	Caterpie	Bug		195	45	30	35	
##	15	11	Metapod	Bug		205	50	20	55	
##	16	12	Butterfree	Bug	Flying	395	60	45	50	
##	17	13	Weedle	Bug	Poison	195	40	35	30	
##	18	14	Kakuna	Bug	Poison	205	45	25	50	
##	19	15	Beedrill	Bug	Poison	395	65	90	40	
##	20	15	BeedrillMega Beedrill	Bug	Poison	495	65	150	40	
##	21	16	Pidgey	Normal	Flying	251	40	45	40	
##	22	17	Pidgeotto	Normal	Flying	349	63	60	55	
	23	18	Pidgeot	Normal	Flying	479	83	80	75	
	24	18	PidgeotMega Pidgeot	Normal	Flying	579	83	80	80	
	25	19	Rattata	Normal		253	30	56	35	
	26	20	Raticate	Normal		413	55	81	60	
	27	21	Spearow	Normal	Flying	262	40	60	30	
	28	22	Fearow	Normal	Flying	442	65	90	65	
	29	23	Ekans	Poison		288	35	60	44	
## ##	30	24 25	Arbok	Poison		438	60 35	85 EE	69	
	32	26		Electric Electric		320 485	60	55 90	40 55	
	33	27	Sandshrew	Ground		300	50	75	85	
	34	28	Sandslash	Ground		450	75	100	110	
##		29	Nidoranâ\23		oison	100		75 55	47	52
##		30	Nidorina	Poison	010011	365	70	62	67	02
	37	31	Nidoqueen	Poison	Ground	505	90	92	87	
	38	32	Nidoranâ\23				273	46	57	40
	39	33	Nidorino	Poison		365	61	72	57	
##	40	34	Nidoking	Poison	Ground	505	81	102	77	
##	41	35	Clefairy	Fairy		323	70	45	48	
##	42	36	Clefable	Fairy		483	95	70	73	
##	43	37	Vulpix	Fire		299	38	41	40	
##	44	38	Ninetales	Fire		505	73	76	75	
##	45	39	Jigglypuff	Normal	Fairy	270	115	45	20	
##	46	40	Wigglytuff	Normal	Fairy	435	140	70	45	
	47	41	Zubat	Poison	Flying	245	40	45	35	
##	48	42	Golbat	Poison	Flying	455	75	80	70	

	49	43	Oddish	Grass	Poison	320	45	50	55
	50	44	Gloom	Grass	Poison	395	60	65	70
##		45	Vileplume	Grass	Poison	490	75	80	85
	52	46	Paras	Bug	Grass	285	35	70	55
	53	47	Parasect	Bug	Grass	405	60	95	80
	54	48	Venonat	Bug	Poison	305	60	55	50
	55	49	Venomoth	Bug	Poison	450	70	65	60
	56	50	Diglett	Ground		265	10	55	25
	57	51	Dugtrio	Ground		405	35	80	50
	58	52	Meowth	Normal		290	40	45	35
	59	53	Persian	Normal		440	65	70	60
	60	54	Psyduck	Water		320	50	52	48
	61	55	Golduck	Water		500	80	82	78
	62	56		Fighting		305	40	80	35
	63	57	-	Fighting		455	65	105	60
	64	58	Growlithe	Fire		350	55	70	45
	65	59	Arcanine	Fire		555	90	110	80
	66	60	Poliwag	Water		300	40	50	40
	67	61	Poliwhirl	Water		385	65	65	65
	68	62	Poliwrath		Fighting	510	90	95	95
	69	63	Abra	Psychic		310	25	20	15
	70	64	Kadabra	Psychic		400	40	35	30
	71	65	Alakazam	Psychic		500	55	50	45
	72	65	AlakazamMega Alakazam	Psychic		590	55	50	65
	73	66	<u>-</u>	Fighting		305	70	80	50
	74	67		Fighting		405	80	100	70
	75	68	-	Fighting		505	90	130	80
	76	69	Bellsprout	Grass	Poison	300	50	75	35
	77	70	Weepinbell	Grass	Poison	390	65	90	50
	78	71	Victreebel	Grass	Poison	490	80	105	65
	79	72	Tentacool	Water	Poison	335	40	40	35
	80	73	Tentacruel	Water	Poison	515	80	70	65
	81	74	Geodude	Rock	Ground	300	40	80	100
	82	75	Graveler	Rock	Ground	390	55	95	115
	83	76	Golem	Rock	Ground	495	80	120	130
	84	77	Ponyta	Fire		410	50	85	55
##		78	Rapidash	Fire	ъ .	500	65	100	70
	86	79	Slowpoke	Water	Psychic	315	90	65 75	65
	87	80	Slowbro	Water	Psychic	490	95	75	110
	88	80	SlowbroMega Slowbro	Water	Psychic	590	95	75	180
	89	81	Magnemite		Steel	325	25	35	70
	90	82	•	Electric	Steel	465	50	60	95 55
	91	83	Farfetch'd		Flying	352	52 35	65 95	55 45
	92 93	84 85	Doduo Dodrio	Normal Normal	Flying	310 460	60	85 110	70
	93 94	86	Seel	Water	Flying	325	65	45	55
	94 95	87			Ice	325 475	90	70	80
	95 96	88	Dewgong Grimer	Water Poison	TCE	325	80	80	50
	96 97	89	Grimer Muk	Poison		500	105	105	75
	91 98	90	Shellder	Water		305	30	65	100
	98 99	90	Cloyster	Water	Ice	525	50	95	180
	100	91	Gastly	Ghost	Poison	310	30	95 35	30
	100	92	Haunter	Ghost	Poison	405	45	50	45
		93 94							
##	102	94	Gengar	Ghost	Poison	500	60	65	60

	103	94	GengarMega Gengar	Ghost	Poison	600	60	65	80
	104	95	Onix	Rock	Ground	385	35	45	160
	105	96	Drowzee	Psychic		328	60	48	45
	106	97	Hypno	Psychic		483	85	73	70
	107	98	Krabby	Water		325	30	105	90
##	108	99	Kingler	Water		475	55	130	115
##	109			Electric		330	40	30	50
##	110		Electrode			480	60	50	70
##	111		Exeggcute	Grass	Psychic	325	60	40	80
##	112		Exeggutor	Grass	Psychic	520	95	95	85
##	113		Cubone	Ground		320	50	50	95
##	114		Marowak	Ground		425	60	80	110
##	115		Hitmonlee			455	50	120	53
##	116		Hitmonchan			455	50	105	79 75
##	117		Lickitung	Normal		385	90	55	75
##	118		Koffing	Poison		340	40	65	95
##	119		Weezing		D1-	490	65	90	120
##	120		Rhyhorn		Rock	345	80	85 130	95
	121		Rhydon	Ground	Rock	485	105	130	120
	122		Chansey	Normal		450	250	5	5
	123		Tangela	Grass		435	65	55 05	115
	124		Kangaskhan	Normal		490	105 105	95 105	80
	125		KangaskhanMega Kangaskhan	Normal		590		125	100
			Horsea	Water		295	30	40	70
	127 128		Seadra	Water		440 320	55 45	65 67	95 60
	129		Goldeen	Water		450	80	92	65
	130		Seaking	Water		340	30	92 45	55
##	131		Staryu Starmie	Water	Daychic	520	60	75	85
##	132		Mr. Mime	Water Psychic	Psychic	460	40	45	65
##	133		Scyther	Bug	Fairy	500	70	110	80
##	134		Jynx	Ice	Flying Psychic	455	65	50	35
##	135		Electabuzz		1 by clife	490	65	83	57
##	136		Magmar	Fire		495	65	95	57
	137		Pinsir	Bug		500	65	125	100
	138		PinsirMega Pinsir	Bug	Flying	600	65	155	120
	139		Tauros	Normal	1 1 y 1116	490	75	100	95
	140		Magikarp	Water		200	20	10	55
	141		Gyarados	Water	Flying	540	95	125	79
	142		GyaradosMega Gyarados	Water	Dark	640	95	155	109
	143		Lapras	Water	Ice		130	85	80
	144		Ditto	Normal	200	288	48	48	48
	145		Eevee	Normal		325	55	55	50
	146		Vaporeon	Water			130	65	60
	147		-	Electric		525	65	65	60
	148		Flareon	Fire		525	65	130	60
	149		Porygon	Normal		395	65	60	70
	150		Omanyte	Rock	Water	355	35	40	100
	151		Omastar	Rock	Water	495	70	60	125
	152		Kabuto	Rock	Water	355	30	80	90
	153		Kabutops	Rock	Water	495	60	115	105
	154		Aerodactyl	Rock	Flying	515	80	105	65
##	155	142	AerodactylMega Aerodactyl	Rock	Flying	615	80	135	85
##	156	143	Snorlax	Normal		540	160	110	65

##	157	111	Antique	Taa	Elmina	EOO	00	O.E.	100
##	157 158		Articuno	Ice	Flying	580 580	90 90	85 90	100 85
##	159		Moltres	Electric Fire	Flying	580	90	100	90
##					Flying		41	64	45
	160 161		Dratini	Dragon		300 420	61	84	45 65
##			Dragonair	Dragon	F3				
##	162		Dragonite	Dragon	Flying	600	91	134	95
##	163		Mewtwo	Psychic	District		106	110	90
##	164		MewtwoMega Mewtwo X	=	Fighting	780	106	190	100
##	165		MewtwoMega Mewtwo Y	Psychic		780	106	150	70
##	166		Mew	Psychic		600	100	100	100
##	167		Chikorita	Grass		318	45	49	65
##	168		Bayleef	Grass		405	60	62	80
##	169		Meganium	Grass		525	80	82	100
##	170		Cyndaquil	Fire		309	39	52	43
##	171		Quilava			405	58	64	58
##	172		Typhlosion	Fire		534	78	84	78
##	173		Totodile	Water		314	50	65	64
##	174		Croconaw	Water		405	65	80	80
##	175		Feraligatr	Water		530	85	105	100
##	176		Sentret	Normal		215	35	46	34
##	177		Furret	Normal		415	85	76	64
##	178		Hoothoot	Normal	Flying	262	60	30	30
##	179		Noctowl	Normal	Flying	442		50	50
##	180		Ledyba	_	Flying	265	40	20	30
##	181		Ledian	Bug	Flying	390	55	35	50
##	182		Spinarak	Bug	Poison	250	40	60	40
##	183		Ariados	Bug	Poison	390	70	90	70
##	184		Crobat	Poison	Flying	535	85	90	80
##	185		Chinchou		Electric	330	75	38	38
##	186		Lanturn		Electric	460	125	58	58
##	187			Electric		205	20	40	15
##	188		Cleffa	Fairy	.	218	50	25	28
##	189		Igglybuff	Normal	Fairy	210	90	30	15
##	190		Togepi	Fairy		245	35	20	65
##	191		Togetic	Fairy	Flying	405	55	40	85
##	192		Natu	Psychic	Flying	320	40	50	45
	193		Xatu	Psychic	Flying	470	65	75	70
	194		-	Electric		280	55	40	40
	195		•	Electric		365	70	55	55
##	196			Electric		510	90	75	85
	197		AmpharosMega Ampharos		Dragon	610	90	95	105
	198		Bellossom			490	75	80	95
	199		Marill		Fairy	250	70	20	50
##	200		Azumarill		Fairy	420		50	80
##	201		Sudowoodo	Rock		410	70	100	115
##	202		Politoed			500	90	75	75
##	203		Hoppip	Grass	Flying	250	35	35	40
##	204		Skiploom	Grass	Flying	340	55	45	50
##	205		Jumpluff	Grass	Flying	460	75	55	70
##	206		Aipom			360	55	70	55
##	207		Sunkern	Grass		180	30	30	30
##	208		Sunflora		F2 :	425	75 25	75 65	55
##	209		Yanma	Bug	Flying	390	65	65	45
##	210	194	Wooper	Water	Ground	210	55	45	45

	211		Quagsire	Water	Ground	430	95	85	85
	212		Espeon	Psychic		525	65	65	60
	213		Umbreon	Dark		525	95	65	110
##	214	198	Murkrow	Dark	Flying	405	60	85	42
##	215	199	Slowking	Water	Psychic	490	95	75	80
##	216	200	Misdreavus	Ghost		435	60	60	60
##	217	201	Unown	Psychic		336	48	72	48
##	218	202	Wobbuffet	Psychic		405	190	33	58
##	219	203	Girafarig	Normal	Psychic	455	70	80	65
##	220	204	Pineco	Bug		290	50	65	90
##	221	205	Forretress	Bug	Steel	465	75	90	140
##	222	206	Dunsparce	Normal		415	100	70	70
##	223	207	Gligar	Ground	Flying	430	65	75	105
##	224	208	Steelix	Steel	Ground	510	75	85	200
##	225	208	SteelixMega Steelix	Steel	Ground	610	75	125	230
##	226	209	Snubbull	Fairy		300	60	80	50
##	227	210	Granbull	Fairy		450	90	120	75
##	228	211	Qwilfish	Water	Poison	430	65	95	75
##	229	212	Scizor	Bug	Steel	500	70	130	100
##	230	212	ScizorMega Scizor	Bug	Steel	600	70	150	140
##	231	213	Shuckle	Bug	Rock	505	20	10	230
##	232	214	Heracross	Bug	Fighting	500	80	125	75
##	233	214	HeracrossMega Heracross	Bug	Fighting	600	80	185	115
##	234	215	Sneasel	Dark	Ice	430	55	95	55
##	235	216	Teddiursa	Normal		330	60	80	50
##	236	217	Ursaring	Normal		500	90	130	75
##	237	218	Slugma	Fire		250	40	40	40
##	238	219	Magcargo	Fire	Rock	410	50	50	120
##	239	220	Swinub	Ice	Ground	250	50	50	40
##	240	221	Piloswine	Ice	Ground	450	100	100	80
##	241	222	Corsola	Water	Rock	380	55	55	85
##	242	223	Remoraid	Water		300	35	65	35
##	243	224	Octillery	Water		480	75	105	75
##	244	225	Delibird	Ice	Flying	330	45	55	45
##	245	226	Mantine	Water	Flying	465	65	40	70
##	246	227	Skarmory	Steel	Flying	465	65	80	140
##	247	228	Houndour	Dark	Fire	330	45	60	30
##	248	229	Houndoom	Dark	Fire	500	75	90	50
##	249	229	HoundoomMega Houndoom	Dark	Fire	600	75	90	90
##	250	230	Kingdra	Water	Dragon	540	75	95	95
##	251	231	Phanpy	Ground		330	90	60	60
##	252	232	Donphan	Ground		500	90	120	120
##	253	233	Porygon2	Normal		515	85	80	90
##	254	234	Stantler	Normal		465	73	95	62
##	255	235	Smeargle	Normal		250	55	20	35
##	256	236	Tyrogue	Fighting		210	35	35	35
##	257	237	Hitmontop	Fighting		455	50	95	95
##	258	238	Smoochum	Ice	Psychic	305	45	30	15
##	259	239	Elekid	Electric	=	360	45	63	37
	260		Magby	Fire		365	45	75	37
##	261	241	Miltank	Normal		490	95	80	105
##	262	242	Blissey	Normal			255	10	10
	263			Electric		580	90	85	75
	264		Entei	Fire			115	115	85

	0.05	0.45	a .	** .		500	400	7.5	445
	265		Suicune		<i>a</i> 1		100	75	115
	266		Larvitar			300	50	64	50
##	267		Pupitar			410	70	84	70
##	268		Tyranitar		Dark	600	100	134	110
##	269		TyranitarMega Tyranitar		Dark	700	100	164	150
##	270		Lugia	=	Flying	680	106	90	130
##	271		Ho-oh		Flying	680	106	130	90
##	272		Celebi	3	Grass	600	100	100	100
##	273		Treecko			310	40	45	35
##	274		Grovyle			405	50	65	45
##	275		Sceptile		_	530	70	85	65
##	276		SceptileMega Sceptile		Dragon	630	70	110	75
##	277		Torchic			310	45	60	40
##	278		Combusken		Fighting	405	60	85	60
##	279		Blaziken		Fighting	530	80	120	70
##	280		BlazikenMega Blaziken		Fighting	630	80	160	80
##	281		Mudkip			310	50	70	50
##	282		Marshtomp		Ground	405	70	85	70
##	283		Swampert		Ground	535	100	110	90
##	284		SwampertMega Swampert		Ground	635	100	150	110
##	285		Poochyena			220	35	55	35
##	286		Mightyena			420	70	90	70
##	287		Zigzagoon			240	38	30	41
##	288		Linoone			420	78	70	61
##	289		Wurmple	Bug		195	45	45	35
##	290		Silcoon	O		205	50	35	55
##	291		Beautifly	U	Flying	395	60	70	50
##	292		Cascoon	0		205	50	35	55
##	293	269	Dustox	Bug	Poison	385	60	50	70
##	294		Lotad		Grass	220	40	30	30
##	295		Lombre	Water	Grass	340	60	50	50
##	296		Ludicolo		Grass	480	80	70	70
##	297	273	Seedot	Grass		220	40	40	50
##	298	274	Nuzleaf		Dark	340	70	70	40
##	299		Shiftry		Dark	480	90	100	60
##	300		Taillow	Normal	Flying	270	40	55	30
	301		Swellow		Flying	430	60	85	60
	302		Wingull		Flying	270	40	30	30
	303		Pelipper		Flying	430	60	50	100
	304		Ralts		Fairy	198	28	25	25
	305		Kirlia		Fairy	278	38	35	35
	306		Gardevoir		Fairy	518	68	65	65
	307		GardevoirMega Gardevoir	•	Fairy	618	68	85	65
	308		Surskit	O	Water	269	40	30	32
	309		Masquerain	•	Flying	414	70	60	62
	310		Shroomish			295	60	40	60
	311		Breloom		Fighting	460	60	130	80
	312		Slakoth			280	60	60	60
	313		Vigoroth			440	80	80	80
##	314	289	Slaking			670	150	160	100
	315		Nincada	. Bug	Ground	266	31	45	90
	316		Ninjask	Bug	Flying	456	61	90	45
##	317	292	Shedinja	Bug	Ghost	236	1	90	45
##	318	293	Whismur	Normal		240	64	51	23

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	319		Loudred			360	84	71	43
	320		Exploud			490	104	91	63
##	321			Fighting		237	72	60	30
##	322			Fighting	п.			120	60
##	323		Azurill	Normal	Fairy	190	50	20	40
##	324		Nosepass	Rock		375	30	45	135
##	325		Skitty			260	50	45	45
##	326		Delcatty			380	70	65	65
##	327		Sableye	Dark	Ghost	380	50	75	75
##	328		SableyeMega Sableye	Dark	Ghost	480	50	85	125
##	329		Mawile	Steel	Fairy	380	50	85	85
##	330		MawileMega Mawile	Steel	Fairy	480	50	105	125
##	331		Aron	Steel	Rock	330	50	70	100
##	332		Lairon	Steel	Rock	430	60	90	140
##	333		Aggron	Steel	Rock	530	70	110	180
##	334		AggronMega Aggron	Steel		630	70	140	230
##	335			Fighting	Psychic	280	30	40	55
##	336			Fighting	Psychic	410	60	60	75
	337		MedichamMega Medicham		Psychic	510	60	100	85
	338		Electrike			295	40	45	40
	339		Manectric			475	70	75	60
	340		ManectricMega Manectric			575	70	75	80
##	341			Electric		405	60	50	40
##	342			Electric		405	60	40	50
##	343		Volbeat	Bug		400	65	73	55
##	344		Illumise	Bug		400	65	47	55
##	345		Roselia		Poison	400	50	60	45
##	346	316	Gulpin	Poison		302	70	43	53
##	347	317	Swalot	Poison		467	100	73	83
##	348	318	Carvanha	Water	Dark	305	45	90	20
##	349	319	Sharpedo	Water	Dark	460	70	120	40
##	350		SharpedoMega Sharpedo	Water	Dark	560	70	140	70
##	351	320	Wailmer	Water		400		70	35
##	352	321	Wailord	Water		500	170	90	45
##	353		Numel	Fire	Ground	305	60	60	40
##	354		Camerupt	Fire	Ground	460	70	100	70
	355		CameruptMega Camerupt	Fire	Ground	560	70	120	100
	356		Torkoal	Fire		470	70	85	140
##	357		Spoink	•		330	60	25	35
##	358		Grumpig	-		470	80	45	65
	359		Spinda			360	60	60	60
	360		Trapinch			290	45	100	45
##	361		Vibrava		Dragon	340	50	70	50
##	362		Flygon		Dragon	520	80	100	80
	363		Cacnea	Grass		335	50	85	40
	364		Cacturne	Grass	Dark	475	70	115	60
##	365		Swablu		Flying	310	45	40	60
##	366		Altaria	O	Flying	490	75	70	90
##	367		AltariaMega Altaria	•	Fairy	590	75	110	110
##	368		Zangoose	Normal		458	73	115	60
##	369		Seviper	Poison		458	73	100	60
##	370		Lunatone	Rock	Psychic	440	70	55	65
##	371	338	Solrock	Rock	Psychic	440	70	95	85
##	372	339	Barboach	Water	Ground	288	50	48	43

	373		Whiscash	Water	Ground		110	78	73
	374		Corphish	Water		308	43	80	65
	375		Crawdaunt	Water	Dark	468	63	120	85
	376		Baltoy	Ground	Psychic	300	40	40	55
	377		Claydol	Ground	Psychic	500	60	70	105
##	378		Lileep	Rock	Grass	355	66	41	77
##	379		Cradily	Rock	Grass	495	86	81	97
##	380		Anorith	Rock	Bug	355	45	95	50
##	381		Armaldo	Rock	Bug	495	75	125	100
##	382		Feebas	Water		200	20	15	20
##	383		Milotic	Water		540	95	60	79
##	384		Castform	Normal		420	70	70	70
##	385	352	Kecleon	Normal		440	60	90	70
##	386	353	Shuppet	Ghost		295	44	75	35
##	387	354	Banette	Ghost		455	64	115	65
##	388	354	BanetteMega Banette	Ghost		555	64	165	75
##	389	355	Duskull	Ghost		295	20	40	90
##	390	356	Dusclops	Ghost		455	40	70	130
##	391	357	Tropius	Grass	Flying	460	99	68	83
##	392	358	Chimecho	Psychic		425	65	50	70
##	393	359	Absol	Dark		465	65	130	60
##	394	359	AbsolMega Absol	Dark		565	65	150	60
##	395	360	Wynaut	Psychic		260	95	23	48
##	396	361	Snorunt	Ice		300	50	50	50
##	397	362	Glalie	Ice		480	80	80	80
##	398	362	GlalieMega Glalie	Ice		580	80	120	80
##	399	363	Spheal	Ice	Water	290	70	40	50
##	400	364	Sealeo	Ice	Water	410	90	60	70
##	401	365	Walrein	Ice	Water	530	110	80	90
##	402	366	Clamperl	Water		345	35	64	85
##	403	367	Huntail	Water		485	55	104	105
##	404	368	Gorebyss	Water		485	55	84	105
##	405	369	Relicanth	Water	Rock	485	100	90	130
##	406	370	Luvdisc	Water		330	43	30	55
##	407	371	Bagon	Dragon		300	45	75	60
##	408	372	Shelgon	Dragon		420	65	95	100
##	409	373	Salamence	Dragon	Flying	600	95	135	80
##	410	373	SalamenceMega Salamence	Dragon	Flying	700	95	145	130
##	411	374	Beldum	Steel	Psychic	300	40	55	80
##	412	375	Metang	Steel	Psychic	420	60	75	100
##	413	376	Metagross	Steel	Psychic	600	80	135	130
##	414	376	MetagrossMega Metagross	Steel	Psychic	700	80	145	150
##	415	377	Regirock	Rock		580	80	100	200
##	416	378	Regice	Ice		580	80	50	100
##	417	379	Registeel	Steel		580	80	75	150
##	418	380	Latias	Dragon	Psychic	600	80	80	90
##	419	380	LatiasMega Latias	Dragon	Psychic	700	80	100	120
##	420	381	Latios	Dragon	Psychic	600	80	90	80
##	421	381	LatiosMega Latios	Dragon	Psychic	700	80	130	100
##	422	382	Kyogre	Water		670	100	100	90
##	423	382	KyogrePrimal Kyogre	Water		770	100	150	90
	424		Groudon	Ground			100	150	140
	425		GroudonPrimal Groudon	Ground	Fire		100	180	160
	426		Rayquaza	Dragon	Flying		105	150	90
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	427		RayquazaMega Rayquaza	_	Flying		105	180	100
	428		Jirachi	Steel	Psychic	600	100	100	100
	429		DeoxysNormal Forme	Psychic		600	50	150	50
	430		DeoxysAttack Forme	Psychic		600	50	180	20
	431		DeoxysDefense Forme	Psychic		600	50	70	160
	432		DeoxysSpeed Forme	Psychic		600	50	95	90
	433		Turtwig			318	55	68	64
	434		Grotle		<i>a</i> 1	405	75	89	85
	435		Torterra		Ground	525	95	109	105
	436		Chimchar	Fire	Di obtion	309	44	58	44
	437		Monferno		Fighting	405	64	78	52 71
	438		Infernape		Fighting	534	76	104	71
	439		Piplup			314	53	51 66	53
	440		Prinplup		C+ 7	405	64	66	68
	441		Empoleon		Steel	530	84	86	88
	442		Starly		Flying	245	40	55 75	30
	443		Staravia		Flying	340	55 or	75 100	50 70
	444 445		Staraptor Bidoof	Normal Normal	Flying	485 250	85 59	120 45	70 40
	446		Bibarel		Mo+om	410	79	45 85	60
	447		Kricketot		Water	194	37	25	41
	448			Bug		384	31 77	25 85	51
	449		Kricketune	Bug Electric			45	65	34
	449			Electric		263 363	60	85	49
##	451					523	80	120	79
##	452		Budew	Electric Grass	Poison	280	40	30	35
##	453		Roserade	Grass	Poison	515	60	70	65
##	454		Cranidos	Rock	FUISUII	350	67	125	40
##	455		Rampardos	Rock		495	97	165	60
##	456		Shieldon		Steel	350	30	42	118
##	457		Bastiodon		Steel	495	60	52	168
##	458		Burmy	Bug	50001	224	40	29	45
	459		WormadamPlant Cloak	Bug	Grass	424	60	59	85
##	460		WormadamSandy Cloak	_	Ground	424	60	79	105
##	461		WormadamTrash Cloak	Bug	Steel	424	60	69	95
##	462		Mothim	J	Flying	424	70	94	50
##	463		Combee	Bug	Flying	244	30	30	42
	464		Vespiquen	Bug	Flying	474	70	80	102
	465		Pachirisu		, 8	405	60	45	70
	466		Buizel			330	55	65	35
	467		Floatzel			495	85	105	55
	468		Cherubi	Grass		275	45	35	45
	469		Cherrim	Grass		450	70	60	70
##	470	422	Shellos	Water		325	76	48	48
##	471	423	Gastrodon	Water	Ground	475	111	83	68
##	472	424	Ambipom	Normal		482	75	100	66
##	473	425	Drifloon		Flying	348	90	50	34
##	474	426	Drifblim	Ghost	Flying	498	150	80	44
##	475	427	Buneary	Normal		350	55	66	44
##	476	428	Lopunny	Normal		480	65	76	84
##	477	428	LopunnyMega Lopunny	Normal	Fighting	580	65	136	94
##	478	429	Mismagius	Ghost		495	60	60	60
##	479	430	Honchkrow	Dark	Flying	505	100	125	52
##	480	431	Glameow	Normal		310	49	55	42

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	481		Purugly	Normal		452	71	82	64
	482		Chingling	Psychic	D1-	285	45	30	50
	483		Stunky	Poison	Dark	329	63	63	47
	484		Skuntank	Poison	Dark	479	103	93	67
	485		Bronzor	Steel	Psychic	300	57	24	86
	486		Bronzong	Steel	Psychic	500	67	89	116
	487		Bonsly	Rock		290	50	80	95
	488		Mime Jr.	Psychic	Fairy	310	20	25	45
	489		Happiny	Normal		220	100	5	5
	490		Chatot	Normal	Flying	411	76	65	45
	491		Spiritomb	Ghost	Dark	485	50	92	108
##	492	443	Gible	Dragon	Ground	300	58	70	45
##	493	444	Gabite	Dragon	Ground	410	68	90	65
##	494	445	Garchomp	Dragon	Ground	600	108	130	95
##	495	445	GarchompMega Garchomp	Dragon	Ground	700	108	170	115
##	496	446	Munchlax	Normal		390	135	85	40
##	497	447	Riolu	Fighting		285	40	70	40
##	498	448	Lucario	Fighting	Steel	525	70	110	70
##	499	448	LucarioMega Lucario	Fighting	Steel	625	70	145	88
##	500	449	Hippopotas	Ground		330	68	72	78
##	501	450	Hippowdon	Ground		525	108	112	118
##	502	451	Skorupi	Poison	Bug	330	40	50	90
##	503	452	Drapion	Poison	Dark	500	70	90	110
##	504	453	Croagunk		Fighting	300	48	61	40
##	505	454	Toxicroak		Fighting	490	83	106	65
##	506	455	Carnivine	Grass	0 0	454	74	100	72
##	507	456	Finneon	Water		330	49	49	56
##	508	457	Lumineon	Water		460	69	69	76
##	509	458	Mantyke	Water	Flying	345	45	20	50
##	510	459	Snover	Grass	Ice	334	60	62	50
##	511	460	Abomasnow	Grass	Ice	494	90	92	75
##	512	460	AbomasnowMega Abomasnow	Grass	Ice	594	90	132	105
##	513	461	Weavile	Dark	Ice	510	70	120	65
	514		Magnezone		Steel	535	70	70	115
	515		Lickilicky	Normal	20001	515	110	85	95
	516		Rhyperior	Ground	Rock	535	115	140	130
	517		Tangrowth	Grass	100 011		100	100	125
	518		Electivire			540	75	123	67
	519		Magmortar	Fire		540	75	95	67
	520		Togekiss	Fairy	Flying	545	85	50	95
	521		Yanmega	•	Flying	515	86	76	86
	522		Leafeon	_	rrying	525	65	110	130
	523		Glaceon			525	65	60	110
	523		Gliscor	Ground	Fluing	510	75	95	125
					Flying	530			80
	525		Mamoswine	Ice	Ground	535		130 80	
	526		Porygon-Z		Di abain a		85		70
	527		Gallade	-	Fighting	518	68	125	65
	528		GalladeMega Gallade	•	Fighting	618	68	165	95
	529		Probopass	Rock	Steel	525	60	55	145
	530		Dusknoir	Ghost	~ -	525	45	100	135
	531		Froslass	Ice	Ghost	480	70	80	70
	532			Electric	Ghost	440	50	50	77
	533		RotomHeat Rotom		Fire	520	50	65	107
##	534	479	RotomWash Rotom	Electric	Water	520	50	65	107

##	535	170	RotomFrost Rotom	Flectric	Ice	520	50	65	107
	536		RotomFan Rotom		Flying	520	50	65	107
	537		RotomMow Rotom		Grass	520	50	65	107
	538		Uxie		GLUBB	580	75	75	130
	539		Mesprit	•		580	80	105	105
	540		Azelf	•		580	75	125	70
	541		Dialga	•	Dragon	680	100	120	120
	542		Palkia		Dragon	680	90	120	100
	543		Heatran		Steel	600	91	90	106
	544		Regigigas		50001		110	160	110
	545		GiratinaAltered Forme		Dragon	680	150	100	120
	546		GiratinaOrigin Forme		Dragon	680	150	120	100
##	547	488	Cresselia			600	120	70	120
##	548		Phione	•		480	80	80	80
##	549		Manaphy			600	100	100	100
##	550	491	Darkrai			600	70	90	90
##	551	492	ShayminLand Forme	Grass		600	100	100	100
##	552	492	ShayminSky Forme		Flying	600	100	103	75
##	553	493	Arceus		, 0	720	120	120	120
##	554	494	Victini	Psychic	Fire	600	100	100	100
##	555	495	Snivy	Grass		308	45	45	55
##	556	496	Servine	Grass		413	60	60	75
##	557	497	Serperior	Grass		528	75	75	95
##	558	498	Tepig	Fire		308	65	63	45
##	559	499	Pignite	Fire	Fighting	418	90	93	55
##	560	500	Emboar	Fire	Fighting	528	110	123	65
##	561	501	Oshawott	Water		308	55	55	45
##	562	502	Dewott	Water		413	75	75	60
##	563	503	Samurott	Water		528	95	100	85
##	564	504	Patrat	Normal		255	45	55	39
##	565	505	Watchog			420	60	85	69
##	566		Lillipup			275	45	60	45
##	567		Herdier			370	65	80	65
##	568		Stoutland			500	85	110	90
##	569		Purrloin			281	41	50	37
##	570		Liepard			446	64	88	50
	571		Pansage			316	50	53	48
	572		Simisage			498	75 50	98	63
	573		Pansear			316	50 75	53	48
	574		Simisear			498	75 50	98	63
	575 576		Panpour			316 498	50 75	53 98	48
	577		Simipour Munna			292	76	25	63 45
	578		Musharna	•			116	55	45 85
	579		Pidove	•	Flying	264	50	55	50
	580		Tranquill		3 0	358	62	77	62
	581		Unfezant		Flying	488	80	115	80
	582		Blitzle	Electric	, 8	295	45	60	32
	583		Zebstrika	Electric		497	75	100	63
	584		Roggenrola	Rock		280	55	75	85
	585		Boldore			390	70	105	105
##	586	526	Gigalith	Rock		515	85	135	130
##	587	527	Woobat	Psychic	Flying	313	55	45	43
##	588	528	Swoobat	Psychic	Flying	425	67	57	55

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	589		Drilbur	Ground	Q+ 7	328	60	85	40
	590 501		Excadrill	Ground	Steel		110	135	60
	591		Audino	Normal	F	445	103	60	86 106
	592		AudinoMega Audino	Normal	Fairy	545	103	60	126
	593			Fighting		305	75 05	80	55
	594			Fighting		405	85	105	85
	595		Conkeldurr			505	105	140	95
	596		Tympole	Water	~ .	294	50	50	40
	597		Palpitoad	Water	Ground	384	75	65	55
	598		Seismitoad	Water	Ground	509	105	95	75
##	599			Fighting		465	120	100	85
##	600			Fighting	_	465	75	125	75
##	601		Sewaddle	Bug	Grass	310	45	53	70
##	602		Swadloon	Bug	Grass	380	55	63	90
##	603		Leavanny	Bug	Grass	500	75	103	80
##	604		Venipede	Bug	Poison	260	30	45	59
##	605		Whirlipede	Bug	Poison	360	40	55	99
##	606		Scolipede	Bug	Poison	485	60	100	89
	607		Cottonee	Grass	Fairy	280	40	27	60
	608		Whimsicott	Grass	Fairy	480	60	67	85
	609		Petilil	Grass		280	45	35	50
##	610	549	Lilligant	Grass		480	70	60	75
	611		Basculin	Water		460	70	92	65
	612		Sandile	Ground	Dark	292	50	72	35
##	613	552	Krokorok	Ground	Dark	351	60	82	45
##	614	553	Krookodile	Ground	Dark	519	95	117	80
##	615	554	Darumaka	Fire		315	70	90	45
##	616	555	DarmanitanStandard Mode	Fire		480	105	140	55
##	617	555	DarmanitanZen Mode	Fire	Psychic	540	105	30	105
##	618	556	Maractus	Grass		461	75	86	67
##	619	557	Dwebble	Bug	Rock	325	50	65	85
##	620	558	Crustle	Bug	Rock	475	70	95	125
##	621	559	Scraggy	Dark	Fighting	348	50	75	70
##	622	560	Scrafty	Dark	Fighting	488	65	90	115
##	623	561	Sigilyph	Psychic	Flying	490	72	58	80
##	624	562	Yamask	Ghost		303	38	30	85
##	625	563	Cofagrigus	Ghost		483	58	50	145
##	626	564	Tirtouga	Water	Rock	355	54	78	103
##	627	565	Carracosta	Water	Rock	495	74	108	133
##	628	566	Archen	Rock	Flying	401	55	112	45
	629		Archeops	Rock	Flying	567	75	140	65
##	630	568	Trubbish	Poison		329	50	50	62
##	631	569	Garbodor	Poison		474	80	95	82
##	632	570	Zorua	Dark		330	40	65	40
##	633	571	Zoroark	Dark		510	60	105	60
##	634	572	Minccino	Normal		300	55	50	40
##	635	573	Cinccino	Normal		470	75	95	60
##	636	574	Gothita	Psychic		290	45	30	50
##	637	575	Gothorita	Psychic		390	60	45	70
##	638	576	Gothitelle	Psychic		490	70	55	95
##	639	577	Solosis	Psychic		290	45	30	40
##	640	578	Duosion	Psychic		370	65	40	50
##	641	579	Reuniclus	Psychic		490	110	65	75
##	642	580	Ducklett	Water	Flying	305	62	44	50

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	643		Swanna	Water	Flying	473	75	87	63
	644		Vanillite	Ice		305	36	50	50
	645		Vanillish	Ice		395	51	65	65
	646		Vanilluxe	Ice		535	71	95	85
##	647	585	Deerling	Normal	Grass	335	60	60	50
##	648	586	Sawsbuck	Normal	Grass	475	80	100	70
##	649	587	Emolga	Electric	Flying	428	55	75	60
##	650	588	Karrablast	Bug		315	50	75	45
##	651	589	Escavalier	Bug	Steel	495	70	135	105
##	652	590	Foongus	Grass	Poison	294	69	55	45
##	653	591	Amoonguss	Grass	Poison	464	114	85	70
##	654	592	Frillish	Water	Ghost	335	55	40	50
##	655	593	Jellicent	Water	Ghost	480	100	60	70
##	656	594	Alomomola	Water		470	165	75	80
##	657	595	Joltik	Bug	Electric	319	50	47	50
##	658	596	Galvantula	Bug	Electric	472	70	77	60
##	659	597	Ferroseed	Grass	Steel	305	44	50	91
##	660	598	Ferrothorn	Grass	Steel	489	74	94	131
##	661	599	Klink	Steel		300	40	55	70
##	662	600	Klang	Steel		440	60	80	95
##	663	601	Klinklang	Steel		520	60	100	115
##	664	602	Tynamo	Electric		275	35	55	40
##	665	603	Eelektrik			405	65	85	70
##	666	604	Eelektross	Electric		515	85	115	80
##	667	605	Elgyem	Psychic		335	55	55	55
##	668	606	Beheeyem	Psychic		485	75	75	75
##	669	607	Litwick	Ghost	Fire	275	50	30	55
##	670	608	Lampent	Ghost	Fire	370	60	40	60
##	671	609	Chandelure	Ghost	Fire	520	60	55	90
##	672	610	Axew	Dragon		320	46	87	60
##	673	611	Fraxure	Dragon		410	66	117	70
##	674	612	Haxorus	Dragon		540	76	147	90
##	675	613	Cubchoo	Ice		305	55	70	40
##	676	614	Beartic	Ice		485	95	110	80
	677		Cryogonal	Ice		485	70	50	30
	678		Shelmet	Bug		305	50	40	85
	679		Accelgor	Bug		495	80	70	40
	680		Stunfisk	_	Electric		109	66	84
	681			Fighting		350	45	85	50
	682			Fighting		510	65	125	60
	683		Druddigon	Dragon		485	77	120	90
	684		Golett	Ground	Ghost	303	59	74	50
	685		Golurk		Ghost	483	89	124	80
	686		Pawniard		Steel	340	45	85	70
	687		Bisharp	Dark	Steel	490	65	125	100
	688		Bouffalant	Normal		490	95	110	95
	689		Rufflet	Normal	Flying	350	70	83	50
	690		Braviary		Flying		100	123	75
	691		Vullaby	Dark	Flying	370	70	55	75
	692		Mandibuzz	Dark	Flying		110	65	105
	693		Heatmor	Fire	<i>J</i> 8	484	85	97	66
	694		Durant	Bug	Steel	484	58	109	112
	695		Deino	Dark	Dragon	300	52	65	50
	696		Zweilous	Dark	Dragon	420	72	85	70
ii TT	550	JJ-1	ZwCIIOus	Dark	Diagon	120	12	00	7.5

	697	Hydreigon	Dark	0	600	92	105	90
	698	Larvesta	Bug	Fire	360	55	85	55
	699	Volcarona	Bug	Fire	550	85	60	65
	700	Cobalion		Fighting	580	91	90	129
##	701	Terrakion		Fighting	580	91	129	90
##	702	Virizion		Fighting	580	91	90	72
##	703	TornadusIncarnate Forme	Flying		580	79	115	70
##	704	TornadusTherian Forme	Flying		580	79	100	80
##	705	ThundurusIncarnate Forme		Flying	580	79	115	70
##	706	ThundurusTherian Forme		Flying	580	79	105	70
##	707	Reshiram	Dragon	Fire	680	100	120	100
##	708	Zekrom	•	Electric	680	100	150	120
##	709	LandorusIncarnate Forme	Ground	Flying	600	89	125	90
##	710	LandorusTherian Forme	Ground	Flying	600	89	145	90
##	711	Kyurem	Dragon	Ice	660	125	130	90
	712	KyuremBlack Kyurem	Dragon	Ice	700	125	170	100
	713	KyuremWhite Kyurem	Dragon	Ice	700	125	120	90
	714	KeldeoOrdinary Forme		Fighting	580	91	72	90
	715	KeldeoResolute Forme		Fighting	580	91	72	90
##	716	MeloettaAria Forme	Normal	Psychic	600	100	77	77
	717	MeloettaPirouette Forme		Fighting	600	100	128	90
##	718	Genesect	Bug	Steel	600	71	120	95
##	719	Chespin	Grass		313	56	61	65
##	720	Quilladin	Grass	Di obtion	405	61	78	95
##	721	Chesnaught		Fighting	530	88	107	122
##	722	Fennekin	Fire		307	40	45	40
##	723	Braixen	Fire	Danahia	409	59	59	58 70
##	724	Delphox	Fire	Psychic	534	75	69 5.6	72
##	725	Froakie	Water		314	41	56 63	40
##	726 727	Frogadier Greninja	Water	Dark	405 530	54 72	95	52 67
##	728	Bunnelby	Water Normal	Dark	237	38	36	38
##	729	Diggersby	Normal	Ground	423	85	56	77
##	730	Fletchling	Normal		278	45	50	43
##	731	Fletchinder	Fire	Flying Flying	382	62	73	55
##	732	Talonflame	Fire	Flying	499	78	81	71
	733	Scatterbug	Bug	rrying	200	38	35	40
	734	Spewpa	Bug		213	45	22	60
	735	Vivillon	Bug	Flying	411	80	52	50
	736	Litleo	Fire	Normal	369	62	50	58
	737	Pyroar	Fire	Normal	507	86	68	72
	738	Flabébé	Fairy	WOIMGI	303	44	38	39
	739	Floette	Fairy		371	54	45	47
	740	Florges	Fairy		552	78	65	68
	741	Skiddo	Grass		350	66	65	48
	742	Gogoat	Grass			123	100	62
	743	•	Fighting		348	67	82	62
	744		Fighting	Dark	495	95	124	78
	745	Furfrou	Normal		472	75	80	60
	746	Espurr	Psychic		355	62	48	54
	747	MeowsticMale	Psychic		466	74	48	76
	748	MeowsticFemale	Psychic		466	74	48	76
	749	Honedge	Steel	Ghost	325	45	80	100
	750	Doublade	Steel	Ghost	448	59	110	150

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150
## 751 681
                  AegislashBlade Forme
                                             Steel
                                                       Ghost
                                                                520
                                                                     60
                                                                                      50
## 752 681
                AegislashShield Forme
                                             Steel
                                                       Ghost
                                                                520
                                                                     60
                                                                             50
                                                                                     150
##
  753 682
                               Spritzee
                                             Fairy
                                                                341
                                                                     78
                                                                             52
                                                                                      60
                                                                             72
##
  754 683
                             Aromatisse
                                             Fairy
                                                                462 101
                                                                                      72
##
   755
       684
                                Swirlix
                                             Fairy
                                                                341
                                                                     62
                                                                             48
                                                                                      66
   756 685
                               Slurpuff
                                             Fairy
                                                                480
                                                                     82
                                                                             80
##
                                                                                      86
                                              Dark
                                                                288
   757
       686
                                   Inkay
                                                    Psychic
                                                                     53
                                                                             54
                                                                                      53
                                                    Psychic
                                                                482
## 758 687
                                Malamar
                                              Dark
                                                                     86
                                                                             92
                                                                                      88
##
   759
       688
                                Binacle
                                              Rock
                                                       Water
                                                                306
                                                                     42
                                                                             52
                                                                                      67
  760 689
                                                                500
                                                                     72
                                                                            105
##
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                                                       Water
                                                                                     115
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                                           Poison
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##
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##
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                                                                                      77
##
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## 770
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                                                                521 123
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##
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                                             Fairy
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                                                                             65
                                                                                      65
  772 701
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                                                                     78
                                                                             92
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                                                       Fairy
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##
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##
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## 781 710
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##
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       711
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##
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                                                                             85
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##
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## 790 713
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## 796 719
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                   DiancieMega Diancie
##
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                                                                            160
                                                                                     110
   798 720
                   HoopaHoopa Confined
                                                                600
                                                                     80
##
                                          Psychic
                                                       Ghost
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                                                                                      60
##
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                    HoopaHoopa Unbound
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                                                        Dark
                                                                680
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##
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##	408	60	50	50	3	False
##	409	110	80	100	3	False
##	410	120	90	120	3	False
##	411	35	60	30	3	False
##	412	55	80	50	3	False
##	413	95	90	70	3	False
##	414	105	110	110	3	False
##	415	50	100	50	3	True
##	416	100	200	50	3	True
##	417	75	150	50	3	True
##	418	110	130	110	3	True
##	419	140	150	110	3	True
##	420	130	110	110	3	True
##	421	160	120	110	3	True
##	422	150	140	90	3	True
##	423	180	160	90	3	True
##	424	100	90	90	3	True
##	425	150	90	90	3	True
##	426	150	90	95	3	True
##	427	180	100	115	3	True
##	428	100	100	100	3	True
##	429	150	50	150	3	True
##	430	180	20	150	3	True
##	431	70	160	90	3	True
##	432	95	90	180	3	True
##	433	45	55	31	4	False
##	434	55	65	36	4	False
##	435	75	85	56	4	False

## 436	58	44	61	4	False
## 437	78	52	81	4	False
## 438	104	71	108	4	False
## 439	61	56	40	4	False
## 440	81	76	50	4	False
## 441	111	101	60	4	False
## 442	30	30	60	4	False
## 443	40	40	80	4	False
## 444	50	60	100	4	False
## 445	35	40	31	4	False
## 446	55	60	71	4	False
## 447	25	41	25	4	False
## 448	55	51	65	4	False
## 449	40	34	45	4	False
## 450	60	49	60	4	False
## 451	95	79	70	4	False
## 452	50	70	55	4	False
## 453	125	105	90	4	False
## 454	30	30	58	4	False
## 455	65	50	58	4	False
## 456	42	88	30	4	False
## 457	47	138	30	4	False
## 458	29	45	36	4	False
## 459	79	105	36	4	False
## 460	59	85	36	4	False
## 461	69	95	36	4	False
## 462	94	50	66	4	False
## 463	30	42	70	4	False
## 464	80	102	40	4	False
## 465	45	90	95	4	False
## 466	60	30	85	4	False
## 467	85	50	115	4	False
## 468	62	53	35	4	False
## 469	87	78	85	4	False
## 470	57	62	34	4	False
## 471	92	82	39	4	False
## 472	60	66	115	4	False
## 473	60	44	70	4	False
## 474	90	54	80	4	False
## 475	44	56	85	4	False
## 476	54	96	105	4	False
## 477	54	96	135	4	False
## 478	105	105	105	4	False
## 479	105	52	71	4	False
## 480	42	37	85	4	False
## 481	64	59	112	4	False
## 482	65	50	45	4	False
## 483	41	41	74	4	False
## 484	71	61	84	4	False
## 485	24	86	23	4	False
## 486	79	116	33	4	False
## 487	10	45	10	4	False
## 488	70	90	60	4	False
## 489	15	65	30	4	False
100	10	50	50	-	1 4156

##	490	92	42	91	4	False
##	491	92	108	35	4	False
##	492	40	45	42	4	False
##	493	50	55	82	4	False
##	494	80	85	102	4	False
##	495	120	95	92	4	False
##	496	40	85	5	4	False
##	497	35	40	60	4	False
##	498	115	70	90	4	False
##	499	140	70	112	4	False
##	500	38	42	32	4	False
##	501	68	72	47	4	False
##	502	30	55	65	4	False
##	503	60	75	95	4	False
##	504	61	40	50	4	False
##	505	86	65	85	4	False
##	506	90	72	46	4	False
##	507	49	61	66	4	False
##	508	49 69	86	91	4	False
	509				4	
##		60	120	50		False
##	510	62	60 05	40	4	False
##	511	92	85	60	4	False
##	512	132	105	30	4	False
##	513	45	85	125	4	False
##	514	130	90	60	4	False
##	515	80	95	50	4	False
##	516	55	55	40	4	False
##	517	110	50	50	4	False
##	518	95	85	95	4	False
##	519	125	95	83	4	False
##	520	120	115	80	4	False
##	521	116	56	95	4	False
##	522	60	65	95	4	False
##	523	130	95	65	4	False
##	524	45	75	95	4	False
##	525	70	60	80	4	False
##	526	135	75	90	4	False
##	527	65	115	80	4	False
##	528	65	115	110	4	False
##	529	75	150	40	4	False
##	530	65	135	45	4	False
##	531	80	70	110	4	False
##	532	95	77	91	4	False
##	533	105	107	86	4	False
##	534	105	107	86	4	False
##	535	105	107	86	4	False
##	536	105	107	86	4	False
##	537	105	107	86	4	False
					4	
##	538	75 105	130	95 80		True
##	539	105	105	80	4	True
##	540	125	70	115	4	True
##	541	150	100	90	4	True
##	542	150	120	100	4	True
##	543	130	106	77	4	True

## 544	80	110	100	4	True
## 545	100	120	90	4	True
## 546	120	100	90	4	True
## 547	75	130	85	4	False
## 548	80	80	80	4	False
## 549	100	100	100	4	False
## 550	135	90	125	4	True
## 551	100	100	100	4	True
## 552	120	75	127	4	True
## 553	120	120	120	4	True
## 554	100	100	100	5	True
## 555	45	55	63	5	False
## 556	60	75	83	5	False
## 557	75	95	113	5	False
## 558	45	45	45	5	False
## 559	70	55	55	5	False
## 560	100	65	65	5	False
## 561	63	45	45	5	False
## 562	83	60	60	5	False
## 563	108	70	70	5	False
## 564	35	39	42	5	False
## 565	60	69	77	5	False
## 566	25	45	55	5	False
## 567	35	65	60	5	False
## 568	45	90	80	5	False
## 569	50	37	66	5	False
## 570	88	50	106	5	False
## 571	53	48	64	5	False
## 572	98	63	101	5	False
## 573	53	48	64	5	False
## 574	98	63	101	5	False
## 575	53	48	64	5	False
## 576	98	63	101	5	False
## 577	67	55	24	5	False
## 578	107	95	29	5	False
## 579	36	30	43	5	False
## 580	50	42	65	5	False
## 581	65	55	93	5	False
## 582	50	32	76	5	False
## 583	80	63	116	5	False
## 584	25	25	15	5	False
## 585	50	40	20	5	False
## 586	60	80	25	5	False
## 587	55	43	72	5	False
## 588	77	55	114	5	False
## 589	30	45	68	5	False
## 590	50	65	88	5	False
## 591	60	86	50	5	False
## 592	80	126	50	5	False
## 593	25	35	35	5	False
## 594	40	50	40	5	False
## 595	55	65	45	5	False
## 596	50	40	64	5	False
## 597	65	55	69	5	False
001	00		00	J	1 0100

##	598	85	75	74	5	False
##	599	30	85	45	5	False
##	600	30	75	85	5	False
##	601	40	60	42	5	False
##	602	50	80	42	5	False
##	603	70	80	92	5	False
##	604	30	39	57	5	False
##	605	40	79	47	5	False
##	606	55	69	112	5	False
##	607	37	50	66	5	False
##	608	77	75	116	5	False
##	609	70	50	30	5	False
##	610	110	75	90	5	False
##	611	80	55	98	5	False
##	612	35	35	65	5	False
##	613	45	45	74	5	False
##	614	65	70	92	5	False
##	615	15	45	50	5	False
##	616	30	55	95	5	False
##	617	140	105	55	5	False
##	618	106	67	60	5	False
##	619	35	35	55	5	False
##	620	65	75	45	5	False
##	621	35	70	48	5	False
##	622	45	115	58	5	False
##	623	103	80	97	5	False
##	624	55	65	30	5	False
##	625	95	105	30	5	False
##	626	53	45	22	5	False
##	627	83	65	32	5	False
##	628	74	45	70	5	False
##	629	112	65	110	5	False
##	630	40	62	65	5	False
##	631	60	82	75	5	False
##	632	80	40	65	5	False
##	633	120	60	105	5	False
##	634	40	40	75	5	False
##	635	65	60	115	5	False
##	636	55	65	45	5	False
##	637	75	85	55	5	False
##	638	95	110	65	5	False
##	639	105	50	20	5	False
##	640	125	60	30	5	False
##	641	125	85	30	5	False
##	642	44	50	55	5	False
##	643	87	63	98	5	False
##	644	65	60	44	5	False
##	645	80	75	59	5	False
##	646	110	95	79	5	False
##	647	40	50	75	5	False
##	648	60	70	95	5	False
##	649	75	60	103	5	False
##	650	40	45	60	5	False
##	651	60	105	20	5	False

##	652	55	55	15	5	False
##	653	85	80	30	5	False
##	654	65	85	40	5	False
##	655	85	105	60	5	False
##	656	40	45	65	5	False
##	657	57	50	65	5	False
##	658	97	60	108	5	False
##	659	24	86	10	5	False
##	660	54	116	20	5	False
##	661	45	60	30	5	False
##	662	70	85	50	5	False
##	663	70	85	90	5	False
##	664	45	40	60	5	False
##	665	75	70	40	5	False
##	666	105	80	50	5	False
##	667	85	55	30	5	False
##	668	125	95	40	5	False
##	669	65	55	20	5	False
##	670	95	60	55	5	False
##	671	145	90	80	5	False
##	672	30	40	57	5	False
##	673	40	50	67	5	False
##	674	60	70	97	5	False
##	675	60	40	40	5	False
##	676	70	80	50	5	False
##	677	95	135	105	5	False
##	678	40	65	25	5	False
##	679	100	60	145	5	False
##	680	81	99	32	5	False
##	681	55	50	65	5	False
##	682	95	60	105	5	False
##	683	60	90	48	5	False
##	684	35	50	35	5	False
##	685	55	80	55	5	False
##	686	40	40	60	5	False
##	687	60	70	70	5	False
##	688	40	95	55	5	False
##	689	37	50	60	5	False
##	690	57	75	80	5	False
##	691	45	65	60	5	False
##	692	55	95	80	5	False
##	693	105	66	65	5	False
##	694	48	48	109	5	False
##	695	45	50	38	5	False
##	696	65	70	58	5	False
##	697	125	90	98	5	False
##	698	50	55	60	5	False
##	699	135	105	100	5	False
##	700	90	72	108	5	True
##	701	72	90	108	5	True
##	702	90	129	108	5	True
##	703	125	80	111	5	True
##	704	110	90	121	5	True
##	705	125	80	111	5	True
πĦ	100	120	30	111	5	iiue

##	706	145	80	101	5	True
##	707	150	120	90	5	True
##	708	120	100	90	5	True
##	709	115	80	101	5	True
##	710	105	80	91	5	True
##	711	130	90	95	5	True
##	712	120	90	95	5	True
##	713	170	100	95	5	True
##	714	129	90	108	5	False
##	715	129	90	108	5	False
##	716	128	128	90	5	False
##	717	77	77	128	5	False
##	718	120	95	99	5	False
##	719	48	45	38	6	False
##	720	56	58	57	6	False
##	721	74	75	64	6	False
##	722	62	60	60	6	False
##	723	90	70	73	6	False
##	724	114	100	104	6	False
##	725	62	44	71	6	False
##	726	83	56	97	6	False
##	727	103	71	122	6	False
##	728	32	36	57	6	False
##	729	50	77	78	6	False
##	730	40	38	62	6	False
##	731	56	52	84	6	False
##	732	74	69	126	6	False
##	733	27	25	35	6	False
##	734	27	30	29	6	False
##	735	90	50	89	6	False
##	736	73	54	72	6	False
##	737	109	66	106	6	False
##	738	61	79	42	6	False
##	739	75	98	52	6	False
##	740	112	154	75	6	False
##	741	62	57	52	6	False
##	742	97	81	68	6	False
					_	
## ##	743 744	46 69	48 71	43 58	6 6	False
	745	65			6	False
##			90	102 68	6	False
##	746	63	60			False
##	747	83	81	104	6	False
##	748	83	81	104	6	False
##	749	35	37	28	6	False
##	750	45	49	35	6	False
##	751	150	50	60	6	False
##	752	50	150	60	6	False
##	753	63	65	23	6	False
##	754	99	89	29	6	False
##	755	59	57	49	6	False
##	756	85	75	72	6	False
##	757	37	46	45	6	False
##	758	68	75	73	6	False
##	759	39	56	50	6	False

##	760	54	86	68	6	False
##	761	60	60	30	6	False
##	762	97	123	44	6	False
##	763	58	63	44	6	False
##	764	120	89	59	6	False
##	765	61	43	70	6	False
##	766	109	94	109	6	False
##	767	45	45	48	6	False
##	768	69	59	71	6	False
##	769	67	63	46	6	False
##	770	99	92	58	6	False
##	771	110	130	60	6	False
##	772	74	63	118	6	False
##	773	81	67	101	6	False
##	774	50	150	50	6	False
##	775	55	75	40	6	False
##	776	83	113	60	6	False
##	777	110	150	80	6	False
##	778	80	87	75	6	False
##	779	50	60	38	6	False
##	780	65	82	56	6	False
##	781	44	55	51	6	False
##	782	44	55	56	6	False
##	783	44	55	46	6	False
##	784	44	55	41	6	False
##	785	58	75	84	6	False
##	786	58	75	99	6	False
##	787	58	75	69	6	False
##	788	58	75	54	6	False
##	789	32	35	28	6	False
##	790	44	46	28	6	False
##	791	45	40	55	6	False
##	792	97	80	123	6	False
##	793	131	98	99	6	True
##	794	131	98	99	6	True
##	795	81	95	95	6	True
##	796	100	150	50	6	True
##	797	160	110	110	6	True
##	798	150	130	70	6	True
##	799	170	130	80	6	True
##	800	130	90	70	6	True

The clean_names() function just renamed or "cleaned" the predictor's names so it will be easier to code with.

Exercise 2

Using the entire data set, create a bar chart of the outcome variable, type_1.

How many classes of the outcome are there? Are there any Pokémon types with very few Pokémon? If so, which ones?

For this assignment, we'll handle the rarer classes by simply filtering them out. Filter the entire data set to contain only Pokémon whose type_1 is Bug, Fire, Grass, Normal, Water, or Psychic.

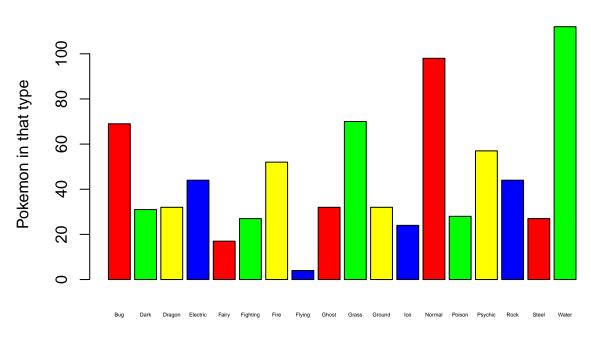
After filtering, convert type_1 and legendary to factors.

```
type1 <- table(Pokemon$type_1)
type1</pre>
```

```
##
##
                         Dragon Electric
                 Dark
                                              Fairy Fighting
                                                                           Flying
        Bug
                                                                   Fire
                   31
##
          69
                              32
                                       44
                                                  17
                                                                      52
##
      Ghost
                Grass
                         Ground
                                       Ice
                                             Normal
                                                       Poison
                                                                Psychic
                                                                              Rock
##
          32
                   70
                              32
                                        24
                                                  98
                                                            28
                                                                      57
                                                                                44
##
      Steel
                Water
##
          27
                   112
```

```
barplot(type1, xlab = "Pokemon Type", ylab = "Pokemon in that type", main = "Pokemon", width = 0.1, cex.
```

Pokemon



Pokemon Type

```
Pokemon %>%

group_by(type_1) %>%

summarise(count = n()) %>%

arrange(desc(count)) # 18 types of Pokemon. Flying has the least types in this dataset (4). Fairy (17)
```

```
## 2 Normal
                  98
## 3 Grass
                  70
## 4 Bug
                  69
                  57
## 5 Psychic
## 6 Fire
                  52
## 7 Electric
                  44
## 8 Rock
                  44
                  32
## 9 Dragon
## 10 Ghost
                  32
## 11 Ground
                  32
## 12 Dark
                  31
                  28
## 13 Poison
## 14 Fighting
                  27
## 15 Steel
                  27
## 16 Ice
                  24
## 17 Fairy
                  17
## 18 Flying
Common_pokemon_types <- Pokemon %>%
   filter(type_1 == "Bug" | type_1 == "Fire" | type_1 == "Grass" | type_1 == "Normal" | type_1 == "Wate
Common_pokemon_types %>%
  group_by(type_1) %>%
  summarise(count = n()) %>%
  arrange(desc(count)) #Now there are only 6 types
## # A tibble: 6 x 2
##
    type_1 count
##
     <chr>>
            <int>
## 1 Water
              112
## 2 Normal
               98
## 3 Grass
                70
## 4 Bug
                69
## 5 Psychic
              57
## 6 Fire
                52
Pokemon_factored <- Common_pokemon_types %>%
  mutate(type_1 = factor(type_1)) %>%
  mutate(legendary = factor(legendary)) %>%
  mutate(generation = factor(generation))
```

Perform an initial split of the data. Stratify by the outcome variable. You can choose a proportion to use. Verify that your training and test sets have the desired number of observations.

Next, use v-fold cross-validation on the training set. Use 5 folds. Stratify the folds by type_1 as well. Hint: Look for a strata argument. Why might stratifying the folds be useful?

```
set.seed(3515)
Pokemon_split <- initial_split(Pokemon_factored, strata = type_1, prop = 0.7)
Pokemon_training <- training(Pokemon_split)
Pokemon_testing <- testing(Pokemon_split)
dim(Pokemon_training) #318 observations</pre>
```

```
## [1] 318 13
```

```
dim(Pokemon_testing) #140 observations

## [1] 140 13

Pokemon_fold <- vfold_cv(Pokemon_training, strata = type_1, v = 5)
Pokemon_fold #Stratifying the folds will be useful because it will make sure there is a balance distrib

## # 5-fold cross-validation using stratification

## # A tibble: 5 x 2

## splits id

## <li>## ** <chr>
## 1 <split [252/66]> Fold1

## 2 <split [253/65]> Fold2
```

Set up a recipe to predict type_1 with legendary, generation, sp_atk, attack, speed, defense, hp, and sp_def.

- Dummy-code legendary and generation;
- Center and scale all predictors.

3 <split [253/65]> Fold3 ## 4 <split [256/62]> Fold4 ## 5 <split [258/60]> Fold5

```
Pokemon_recipe <- recipe(type_1 ~ legendary + generation + sp_atk + attack + speed + defense + hp + sp_step_dummy(legendary) %>%
step_dummy(generation) %>%
step_center(all_predictors()) %>%
step_scale(all_predictors())
```

Exercise 5

We'll be fitting and tuning an elastic net, tuning penalty and mixture (use multinom_reg with the glmnet engine).

Set up this model and workflow. Create a regular grid for penalty and mixture with 10 levels each; mixture should range from 0 to 1. For this assignment, we'll let penalty range from -5 to 5 (it's log-scaled).

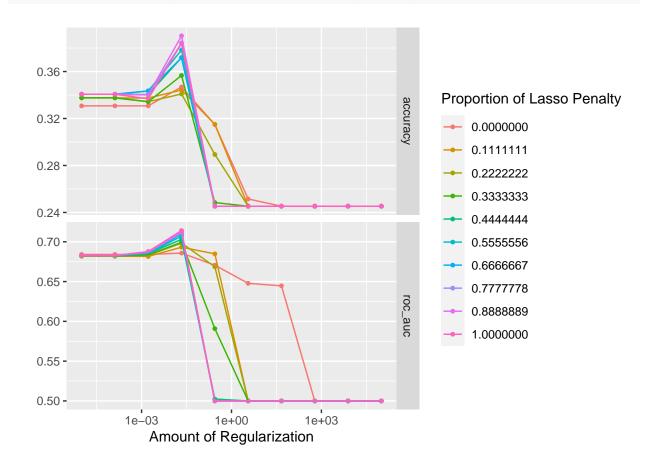
How many total models will you be fitting when you fit these models to your folded data?

```
Pokemon_net <- multinom_reg(penalty = tune(), mixture = tune()) %>%
  set_engine("glmnet")
Pokemon_workflow <- workflow() %>%
  add_recipe(Pokemon_recipe) %>%
  add_model(Pokemon_net)
Pokemon_grid <- grid_regular(penalty(range = c(-5,5)), mixture(range = c(0,1)), levels = 10)
Pokemon_grid #We have 100 rows and we will be doing it 5 times so we will have a total of 500 models.</pre>
```

```
## # A tibble: 100 x 2
##
             penalty mixture
                        <dbl>
##
               <dbl>
##
            0.00001
                            0
    1
            0.000129
##
                            0
##
    3
            0.00167
                            0
##
            0.0215
            0.278
                            0
##
    5
##
    6
            3.59
                            0
##
    7
           46.4
                            0
##
         599.
                            0
        7743.
                            0
##
    9
## 10 100000
     ... with 90 more rows
```

Fit the models to your folded data using tune_grid().

Use autoplot() on the results. What do you notice? Do larger or smaller values of penalty and mixture produce better accuracy and ROC AUC?



Use select_best() to choose the model that has the optimal roc_auc. Then use finalize_workflow(), fit(), and augment() to fit the model to the training set and evaluate its performance on the testing set.

```
best_fit <- select_best(Pokemon_tune_grid, metric = "roc_auc")
Pokemon_finalized <- finalize_workflow(Pokemon_workflow, best_fit)
Pokemon_final_fit <- fit(Pokemon_finalized, data = Pokemon_training)

Prediction <- augment(Pokemon_final_fit, new_data = Pokemon_testing) %>%
    select(type_1, .pred_class, .pred_Bug, .pred_Fire, .pred_Grass, .pred_Normal, .pred_Psychic, .pred_Waaccuracy(Prediction, type_1, .pred_class)
```

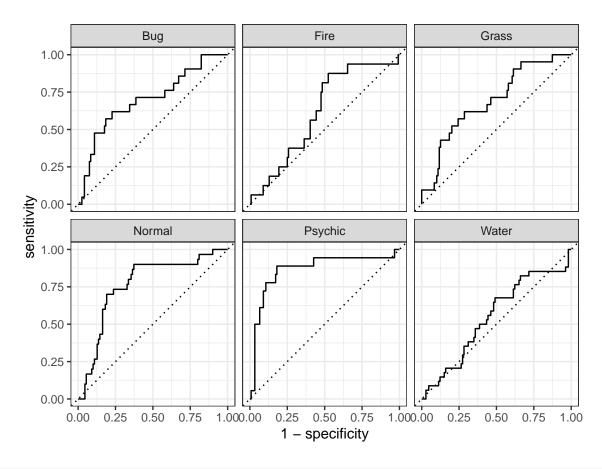
Exercise 8

Calculate the overall ROC AUC on the testing set.

Then create plots of the different ROC curves, one per level of the outcome. Also make a heat map of the confusion matrix.

What do you notice? How did your model do? Which Pokemon types is the model best at predicting, and which is it worst at? Do you have any ideas why this might be?

```
Prediction %>%
  roc_curve(type_1, .pred_Bug, .pred_Fire, .pred_Grass, .pred_Normal, .pred_Psychic, .pred_Water) %>%
  autoplot()
```



```
Prediction %>%
  conf_mat(type_1, .pred_class) %>%
  autoplot(type = "heatmap")
```

Bug -	4	0	2	0	0	2
Fire -	0	1	0	0	1	0
Grass - Or Mormal -	0	0	0	0	0	0
Normal -	11	3	2	22	1	13
Psychic -	0	1	1	1	4	1
Water -	6	11	16	7	12	18
	Bug Fire Grass Normal Psychic Water Truth					

#Normal was predicted the most accurately while Grass was predicted the least accurately. Normal had 22

Normal was predicted the most accurately while Grass was predicted the