

FIFA Soccer Best Team Formation

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5/15/2019

Installing and intializing the necessary libraries

```
install.packages("car")
```

```
library(MASS)  
library(car)
```

```
## Loading required package: carData
```

```
#Loading CompleteDataset
```

```
data1 <- read.csv("C:/Users/Dell-pc/Desktop/Github/Projects/FIFA Soccer Best Team Formation/CompleteDataset.csv")  
head(data1)
```

##	X	Name	Age				Photo
## 1	0	Cristiano Ronaldo	32	https://cdn.sofifa.org/48/18/players/20801.png			
## 2	1	L. Messi	30	https://cdn.sofifa.org/48/18/players/158023.png			
## 3	2	Neymar	25	https://cdn.sofifa.org/48/18/players/190871.png			
## 4	3	L. Suárez	30	https://cdn.sofifa.org/48/18/players/176580.png			
## 5	4	M. Neuer	31	https://cdn.sofifa.org/48/18/players/167495.png			
## 6	5	R. Lewandowski	28	https://cdn.sofifa.org/48/18/players/188545.png			
##	Nationality		Flag	Overall	Potential		
## 1	Portugal	https://cdn.sofifa.org/flags/38.png		94	94		
## 2	Argentina	https://cdn.sofifa.org/flags/52.png		93	93		
## 3	Brazil	https://cdn.sofifa.org/flags/54.png		92	94		
## 4	Uruguay	https://cdn.sofifa.org/flags/60.png		92	92		
## 5	Germany	https://cdn.sofifa.org/flags/21.png		92	92		
## 6	Poland	https://cdn.sofifa.org/flags/37.png		91	91		
##	Club			Club.Logo	Value		
## 1	Real Madrid CF	https://cdn.sofifa.org/24/18/teams/243.png		â, -95.5M			
## 2	FC Barcelona	https://cdn.sofifa.org/24/18/teams/241.png		â, -105M			
## 3	Paris Saint-Germain	https://cdn.sofifa.org/24/18/teams/73.png		â, -123M			
## 4	FC Barcelona	https://cdn.sofifa.org/24/18/teams/241.png		â, -97M			
## 5	FC Bayern Munich	https://cdn.sofifa.org/24/18/teams/21.png		â, -61M			
## 6	FC Bayern Munich	https://cdn.sofifa.org/24/18/teams/21.png		â, -92M			
##	Wage	Special	Acceleration	Aggression	Agility	Balance	Ball.control
## 1	â, -565K	2228	89	63	89	63	93
## 2	â, -565K	2154	92	48	90	95	95
## 3	â, -280K	2100	94	56	96	82	95
## 4	â, -510K	2291	88	78	86	60	91
## 5	â, -230K	1493	58	29	52	35	48
## 6	â, -355K	2143	79	80	78	80	89
##	Composure	Crossing	Curve	Dribbling	Finishing	Free.kick.accuracy	
## 1	95	85	81	91	94		76
## 2	96	77	89	97	95		90
## 3	92	75	81	96	89		84
## 4	83	77	86	86	94		84
## 5	70	15	14	30	13		11
## 6	87	62	77	85	91		84
##	GK.diving	GK.handling	GK.kicking	GK.positioning	GK.reflexes		
## 1	7	11	15		14	11	
## 2	6	11	15		14	8	
## 3	9	9	15		15	11	
## 4	27	25	31		33	37	
## 5	91	90	95		91	89	
## 6	15	6	12		8	10	
##	Heading.accuracy	Interceptions	Jumping	Long.passing	Long.shots	Marking	
## 1	88		29	95	77	92	22
## 2	71		22	68	87	88	13
## 3	62		36	61	75	77	21
## 4	77		41	69	64	86	30
## 5	25		30	78	59	16	10
## 6	85		39	84	65	83	25
##	Penalties	Positioning	Reactions	Short.passing	Shot.power	Sliding.tackle	
## 1	85	95	96		83	94	23
## 2	74	93	95		88	85	26
## 3	81	90	88		81	80	33

## 4	85	92	93	83	87	38										
## 5	47	12	85	55	25	11										
## 6	81	91	91	83	88	19										
##	Sprint.speed	Stamina	Standing.tackle	Strength	Vision	Volley	CAM	CB	CDM							
## 1	91	92	31	80	85	88	89	53	62							
## 2	87	73	28	59	90	85	92	45	59							
## 3	90	78	24	53	80	83	88	46	59							
## 4	77	89	45	80	84	88	87	58	65							
## 5	61	44	10	83	70	11	NA	NA	NA							
## 6	83	79	42	84	78	87	84	57	62							
##	CF	CM	ID	LAM	LB	LCB	LCM	LDM	LF	LM	LS	LW	LWB	Preferred.Positions	RAM	
## 1	91	82	20801	89	61	53	82	62	91	89	92	91	66	ST	LW	89
## 2	92	84	158023	92	57	45	84	59	92	90	88	91	62		RW	92
## 3	88	79	190871	88	59	46	79	59	88	87	84	89	64		LW	88
## 4	88	80	176580	87	64	58	80	65	88	85	88	87	68		ST	87
## 5	NA	NA	167495	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		GK	NA
## 6	87	78	188545	84	58	57	78	62	87	82	88	84	61		ST	84
##	RB	RCB	RCM	RDM	RF	RM	RS	RW	RWB	ST						
## 1	61	53	82	62	91	89	92	91	66	92						
## 2	57	45	84	59	92	90	88	91	62	88						
## 3	59	46	79	59	88	87	84	89	64	84						
## 4	64	58	80	65	88	85	88	87	68	88						
## 5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA						
## 6	58	57	78	62	87	82	88	84	61	88						

```
str(data1)
```

```

## 'data.frame': 17981 obs. of 75 variables:
## $ X : int 0 1 2 3 4 5 6 7 8 9 ...
## $ Name : Factor w/ 16975 levels "A. Ã-mÃ¼r","A. Ã-rn Arnarson",...: 3203 9648 1
2428 9850 11176 13779 4211 4519 15725 5805 ...
## $ Age : int 32 30 25 30 31 28 26 26 27 29 ...
## $ Photo : Factor w/ 17929 levels "https://cdn.sofifa.org/48/18/players/101317.p
ng",...: 7185 775 4020 2122 1521 3500 4392 2738 2666 1544 ...
## $ Nationality : Factor w/ 165 levels "Afghanistan",...: 122 6 19 159 59 121 139 13 59
6 ...
## $ Flag : Factor w/ 165 levels "https://cdn.sofifa.org/flags/1.png",...: 109 125
127 134 88 108 117 140 88 125 ...
## $ Overall : int 94 93 92 92 92 91 90 90 90 90 ...
## $ Potential : int 94 93 94 92 92 91 92 91 90 90 ...
## $ Club : Factor w/ 648 levels "", "SSV Jahn Regensburg",...: 472 226 437 226 22
9 229 384 148 472 339 ...
## $ Club.Logo : Factor w/ 679 levels "https://cdn.sofifa.org/24/18/teams/1.png",...: 4
67 465 610 465 448 448 62 549 467 528 ...
## $ Value : Factor w/ 207 levels "â,-0","â,-1.1M",...: 203 13 21 206 168 202 170 1
98 187 186 ...
## $ Wage : Factor w/ 142 levels "â,-0","â,-100K",...: 94 94 54 88 42 68 37 57 66
52 ...
## $ Special : int 2228 2154 2100 2291 1493 2143 1458 2096 2165 1961 ...
## $ Acceleration : Factor w/ 161 levels "11","12","13",...: 151 156 159 150 57 130 55 158
63 126 ...
## $ Aggression : Factor w/ 151 levels "11","12","13",...: 79 44 59 124 20 129 31 57 72
48 ...
## $ Agility : Factor w/ 146 levels "14","15","16",...: 139 140 146 136 49 118 64 143
101 110 ...
## $ Balance : Factor w/ 135 levels "11","15","16",...: 63 134 115 57 23 109 31 130 8
2 82 ...
## $ Ball.control : Factor w/ 184 levels "10","11","12",...: 182 184 184 180 49 177 40 181
177 172 ...
## $ Composure : Factor w/ 161 levels "11","12","13",...: 160 161 159 150 123 154 97 15
4 152 153 ...
## $ Crossing : Factor w/ 176 levels "10","11","12",...: 168 155 153 155 6 100 8 162 1
68 130 ...
## $ Curve : Factor w/ 153 levels "10","11","12",...: 141 150 141 147 5 133 12 143
146 126 ...
## $ Dribbling : Factor w/ 194 levels "10","11","11+6",...: 190 194 193 183 23 182 10 1
92 172 180 ...
## $ Finishing : Factor w/ 187 levels "10","11","12",...: 186 187 182 186 4 185 4 176 1
61 185 ...
## $ Free.kick.accuracy : Factor w/ 136 levels "10","11","12",...: 116 134 127 127 2 127 10 120
127 76 ...
## $ GK.diving : Factor w/ 100 levels "1","10","11",...: 66 45 98 17 100 7 99 3 2 30
...
## $ GK.handling : Factor w/ 97 levels "1","10","11",...: 3 3 95 14 96 47 91 4 3 4 ...
## $ GK.kicking : Factor w/ 103 levels "1","10","11",...: 7 7 7 22 103 4 100 58 5 81 ...
## $ GK.positioning : Factor w/ 99 levels "1","10","11",...: 6 6 7 21 99 88 95 88 75 35 ...
## $ GK.reflexes : Factor w/ 102 levels "1","10","11",...: 3 85 3 22 100 2 102 85 2 2 ...
## $ Heading.accuracy : Factor w/ 158 levels "10","11","12",...: 151 118 87 136 16 147 12 68 6
1 149 ...
## $ Interceptions : Factor w/ 174 levels "10","11","11-Oct",...: 28 18 37 47 29 43 29 47 1

```

```

66 15 ...
## $ Jumping : Factor w/ 140 levels "13","15","16",...: 140 74 50 80 115 127 69 42 11
118 ...
## $ Long.passing : Factor w/ 188 levels "10","11","12",...: 168 182 162 119 98 122 67 174
188 98 ...
## $ Long.shots : Factor w/ 156 levels "10","11","12",...: 156 152 136 150 7 147 3 146 1
54 146 ...
## $ Marking : Factor w/ 183 levels "10","11","12",...: 16 4 15 30 1 23 4 23 108 3
...
## $ Penalties : Factor w/ 117 levels "10","11","12",...: 109 96 104 109 41 104 32 110
95 88 ...
## $ Positioning : Factor w/ 171 levels "03-Oct","10",...: 171 170 167 169 4 168 4 161 15
1 169 ...
## $ Reactions : Factor w/ 158 levels "28","30","31",...: 158 157 151 156 148 154 151 1
48 149 151 ...
## $ Short.passing : Factor w/ 209 levels "10","11","12",...: 199 205 195 199 71 199 57 203
207 179 ...
## $ Shot.power : Factor w/ 153 levels "10","11","12",...: 153 143 134 146 17 147 24 131
146 147 ...
## $ Sliding.tackle : Factor w/ 169 levels "10","11","12",...: 18 22 33 40 2 12 4 17 123 10
...
## $ Sprint.speed : Factor w/ 194 levels "11","12","13",...: 188 178 185 143 69 165 61 178
48 155 ...
## $ Stamina : Factor w/ 180 levels "12","13","14",...: 177 124 144 173 38 149 31 149
142 117 ...
## $ Standing.tackle : Factor w/ 187 levels "10","11","12",...: 28 24 18 53 1 49 15 22 174 16
...
## $ Strength : Factor w/ 168 levels "12","20","21",...: 137 65 48 137 144 148 72 73 1
14 151 ...
## $ Vision : Factor w/ 173 levels "10","11","12",...: 165 170 160 164 127 154 119 1
66 168 127 ...
## $ Volleys : Factor w/ 125 levels "10","11","12",...: 121 118 116 121 2 120 4 111 1
15 121 ...
## $ CAM : int 89 92 88 87 NA 84 NA 88 83 81 ...
## $ CB : int 53 45 46 58 NA 57 NA 47 72 46 ...
## $ CDM : int 62 59 59 65 NA 62 NA 61 82 52 ...
## $ CF : int 91 92 88 88 NA 87 NA 87 81 84 ...
## $ CM : int 82 84 79 80 NA 78 NA 81 87 71 ...
## $ ID : int 20801 158023 190871 176580 167495 188545 193080 183277 182521 16
7664 ...
## $ LAM : int 89 92 88 87 NA 84 NA 88 83 81 ...
## $ LB : int 61 57 59 64 NA 58 NA 59 76 51 ...
## $ LCB : int 53 45 46 58 NA 57 NA 47 72 46 ...
## $ LCM : int 82 84 79 80 NA 78 NA 81 87 71 ...
## $ LDM : int 62 59 59 65 NA 62 NA 61 82 52 ...
## $ LF : int 91 92 88 88 NA 87 NA 87 81 84 ...
## $ LM : int 89 90 87 85 NA 82 NA 87 81 79 ...
## $ LS : int 92 88 84 88 NA 88 NA 82 77 87 ...
## $ LW : int 91 91 89 87 NA 84 NA 88 80 82 ...
## $ LWB : int 66 62 64 68 NA 61 NA 64 78 55 ...
## $ Preferred.Positions: Factor w/ 802 levels "CAM ","CAM CB ",...: 781 650 428 736 280 736 280
428 122 736 ...
## $ RAM : int 89 92 88 87 NA 84 NA 88 83 81 ...
## $ RB : int 61 57 59 64 NA 58 NA 59 76 51 ...

```

```
## $ RCB      : int  53 45 46 58 NA 57 NA 47 72 46 ...
## $ RCM      : int  82 84 79 80 NA 78 NA 81 87 71 ...
## $ RDM      : int  62 59 59 65 NA 62 NA 61 82 52 ...
## $ RF       : int  91 92 88 88 NA 87 NA 87 81 84 ...
## $ RM       : int  89 90 87 85 NA 82 NA 87 81 79 ...
## $ RS       : int  92 88 84 88 NA 88 NA 82 77 87 ...
## $ RW       : int  91 91 89 87 NA 84 NA 88 80 82 ...
## $ RWB      : int  66 62 64 68 NA 61 NA 64 78 55 ...
## $ ST       : int  92 88 84 88 NA 88 NA 82 77 87 ...
```

```
View(data1)
colnames(data1)
```

```
## [1] "X"           "Name"         "Age"
## [4] "Photo"      "Nationality"  "Flag"
## [7] "Overall"    "Potential"    "Club"
## [10] "Club.Logo"  "Value"        "Wage"
## [13] "Special"    "Acceleration" "Aggression"
## [16] "Agility"    "Balance"      "Ball.control"
## [19] "Composure"  "Crossing"     "Curve"
## [22] "Dribbling"  "Finishing"    "Free.kick.accuracy"
## [25] "GK.diving"  "GK.handling"  "GK.kicking"
## [28] "GK.positioning" "GK.reflexes" "Heading.accuracy"
## [31] "Interceptions" "Jumping"     "Long.passing"
## [34] "Long.shots" "Marking"      "Penalties"
## [37] "Positioning" "Reactions"    "Short.passing"
## [40] "Shot.power"  "Sliding.tackle" "Sprint.speed"
## [43] "Stamina"    "Standing.tackle" "Strength"
## [46] "Vision"     "Volleys"      "CAM"
## [49] "CB"         "CDM"          "CF"
## [52] "CM"         "ID"           "LAM"
## [55] "LB"         "LCB"          "LCM"
## [58] "LDM"        "LF"           "LM"
## [61] "LS"         "LW"           "LWB"
## [64] "Preferred.Positions" "RAM"        "RB"
## [67] "RCB"        "RCM"          "RDM"
## [70] "RF"         "RM"           "RS"
## [73] "RW"         "RWB"          "ST"
```

Data Cleaning

#Covertng factor variables

```
factor(data1$Nationality)
```

##	[1]	Portugal	Argentina
##	[3]	Brazil	Uruguay
##	[5]	Germany	Poland
##	[7]	Spain	Belgium
##	[9]	Germany	Argentina
##	[11]	Spain	Belgium
##	[13]	Belgium	Chile
##	[15]	Croatia	Wales
##	[17]	Argentina	Italy
##	[19]	Italy	Argentina
##	[21]	Slovenia	France
##	[23]	Spain	Gabon
##	[25]	Italy	Germany
##	[27]	Uruguay	Germany
##	[29]	Germany	France
##	[31]	Brazil	Sweden
##	[33]	Netherlands	France
##	[35]	Italy	France
##	[37]	Denmark	Chile
##	[39]	Uruguay	Brazil
##	[41]	Slovakia	Croatia
##	[43]	Spain	Slovenia
##	[45]	Spain	Spain
##	[47]	England	Colombia
##	[49]	Spain	Austria
##	[51]	Belgium	Brazil
##	[53]	Germany	Spain
##	[55]	Brazil	Germany
##	[57]	Belgium	Brazil
##	[59]	Spain	Belgium
##	[61]	Spain	Belgium
##	[63]	Greece	Brazil
##	[65]	France	Spain
##	[67]	France	Portugal
##	[69]	Czech Republic	Belgium
##	[71]	France	Brazil
##	[73]	Italy	France
##	[75]	Costa Rica	Armenia
##	[77]	Croatia	Germany
##	[79]	Germany	Poland
##	[81]	Spain	Germany
##	[83]	Spain	Argentina
##	[85]	Bosnia Herzegovina	Italy
##	[87]	Belgium	France
##	[89]	France	Brazil
##	[91]	Belgium	Italy
##	[93]	Ivory Coast	Spain
##	[95]	Portugal	France
##	[97]	England	Senegal
##	[99]	Spain	Germany
##	[101]	Argentina	Spain
##	[103]	Senegal	Germany
##	[105]	Spain	Greece

##	[107]	Germany	Spain
##	[109]	Netherlands	Spain
##	[111]	Switzerland	Spain
##	[113]	Croatia	Bosnia Herzegovina
##	[115]	Brazil	Germany
##	[117]	Germany	Spain
##	[119]	Spain	Morocco
##	[121]	France	Colombia
##	[123]	France	England
##	[125]	Brazil	Argentina
##	[127]	Spain	France
##	[129]	France	Guinea
##	[131]	Uruguay	Argentina
##	[133]	France	Portugal
##	[135]	Germany	Brazil
##	[137]	Brazil	Egypt
##	[139]	Italy	Sweden
##	[141]	Brazil	Portugal
##	[143]	France	Algeria
##	[145]	Netherlands	Brazil
##	[147]	Portugal	Spain
##	[149]	Portugal	Netherlands
##	[151]	Italy	Cameroon
##	[153]	Senegal	Spain
##	[155]	Argentina	Serbia
##	[157]	Argentina	Spain
##	[159]	Japan	Italy
##	[161]	Netherlands	England
##	[163]	Brazil	France
##	[165]	Argentina	Turkey
##	[167]	Spain	Portugal
##	[169]	Italy	Argentina
##	[171]	Croatia	England
##	[173]	Germany	Argentina
##	[175]	Portugal	Switzerland
##	[177]	France	Brazil
##	[179]	France	Poland
##	[181]	Argentina	Ecuador
##	[183]	Denmark	Belgium
##	[185]	Spain	France
##	[187]	Argentina	Spain
##	[189]	Spain	Spain
##	[191]	Argentina	Netherlands
##	[193]	Portugal	Italy
##	[195]	Spain	Portugal
##	[197]	Ivory Coast	Spain
##	[199]	Italy	Germany
##	[201]	France	France
##	[203]	Algeria	France
##	[205]	Ivory Coast	Senegal
##	[207]	Germany	Italy
##	[209]	Germany	Portugal
##	[211]	France	Germany
##	[213]	Netherlands	Spain

##	[215]	Spain	Brazil
##	[217]	Colombia	Italy
##	[219]	Croatia	Spain
##	[221]	Spain	Germany
##	[223]	France	Montenegro
##	[225]	Spain	Spain
##	[227]	Italy	Netherlands
##	[229]	Germany	England
##	[231]	Spain	Spain
##	[233]	England	Argentina
##	[235]	Brazil	Korea Republic
##	[237]	Italy	Switzerland
##	[239]	Spain	Portugal
##	[241]	Brazil	Germany
##	[243]	Chile	Spain
##	[245]	Switzerland	Colombia
##	[247]	Italy	Brazil
##	[249]	England	Spain
##	[251]	Germany	Kenya
##	[253]	Brazil	Brazil
##	[255]	Germany	Italy
##	[257]	Wales	Poland
##	[259]	Iceland	Algeria
##	[261]	Austria	England
##	[263]	Germany	Greece
##	[265]	Serbia	Uruguay
##	[267]	Croatia	Netherlands
##	[269]	Argentina	France
##	[271]	Serbia	Mexico
##	[273]	Spain	Germany
##	[275]	Belgium	Chile
##	[277]	Bosnia Herzegovina	Brazil
##	[279]	England	England
##	[281]	Mexico	Italy
##	[283]	Germany	France
##	[285]	Wales	France
##	[287]	England	Italy
##	[289]	Portugal	France
##	[291]	Spain	England
##	[293]	Germany	Brazil
##	[295]	Turkey	Brazil
##	[297]	Spain	Switzerland
##	[299]	Norway	Brazil
##	[301]	Portugal	Portugal
##	[303]	Brazil	Germany
##	[305]	Colombia	Croatia
##	[307]	Croatia	Spain
##	[309]	Spain	Denmark
##	[311]	Germany	Portugal
##	[313]	Italy	France
##	[315]	France	Portugal
##	[317]	England	Morocco
##	[319]	England	Italy
##	[321]	Spain	England

##	[323]	Italy	Belgium
##	[325]	Brazil	Brazil
##	[327]	Spain	Netherlands
##	[329]	Spain	France
##	[331]	Spain	England
##	[333]	DR Congo	Ivory Coast
##	[335]	Spain	Ivory Coast
##	[337]	Uruguay	Poland
##	[339]	Slovenia	Croatia
##	[341]	Ukraine	Morocco
##	[343]	Russia	Switzerland
##	[345]	Mexico	Spain
##	[347]	Spain	Germany
##	[349]	Finland	Spain
##	[351]	Spain	England
##	[353]	Spain	England
##	[355]	Germany	Argentina
##	[357]	Algeria	Spain
##	[359]	Brazil	Croatia
##	[361]	Brazil	Belgium
##	[363]	Argentina	Italy
##	[365]	Greece	France
##	[367]	France	Montenegro
##	[369]	Republic of Ireland	Denmark
##	[371]	Spain	France
##	[373]	Belgium	Italy
##	[375]	Belgium	Spain
##	[377]	Slovakia	England
##	[379]	France	Brazil
##	[381]	France	Spain
##	[383]	Argentina	Croatia
##	[385]	Germany	France
##	[387]	Spain	England
##	[389]	Germany	Italy
##	[391]	Spain	Cameroon
##	[393]	England	Serbia
##	[395]	Belgium	Brazil
##	[397]	Algeria	Brazil
##	[399]	Brazil	Germany
##	[401]	Germany	Italy
##	[403]	Spain	Poland
##	[405]	Portugal	Spain
##	[407]	Brazil	Germany
##	[409]	Germany	Bosnia Herzegovina
##	[411]	Spain	France
##	[413]	Ukraine	Russia
##	[415]	Brazil	Serbia
##	[417]	Spain	Belgium
##	[419]	United States	Brazil
##	[421]	Germany	Belgium
##	[423]	France	France
##	[425]	Slovenia	Germany
##	[427]	Brazil	Chile
##	[429]	Serbia	Colombia

##	[431]	Spain	England
##	[433]	France	Turkey
##	[435]	Ukraine	Spain
##	[437]	Brazil	Spain
##	[439]	Germany	Italy
##	[441]	Germany	France
##	[443]	Argentina	Germany
##	[445]	Chile	Brazil
##	[447]	Argentina	Netherlands
##	[449]	Italy	England
##	[451]	Spain	Venezuela
##	[453]	Portugal	Germany
##	[455]	Republic of Ireland	Russia
##	[457]	Brazil	Russia
##	[459]	England	Brazil
##	[461]	Spain	Italy
##	[463]	France	Guinea
##	[465]	Brazil	Netherlands
##	[467]	Italy	Spain
##	[469]	Spain	Germany
##	[471]	Chile	Argentina
##	[473]	Sweden	Argentina
##	[475]	Slovenia	Spain
##	[477]	Ghana	Spain
##	[479]	Mexico	Argentina
##	[481]	Italy	Italy
##	[483]	Denmark	Spain
##	[485]	Mexico	Mexico
##	[487]	Argentina	England
##	[489]	Brazil	Brazil
##	[491]	Uzbekistan	Serbia
##	[493]	Argentina	Italy
##	[495]	England	Poland
##	[497]	England	Bosnia Herzegovina
##	[499]	Morocco	Ivory Coast
##	[501]	Portugal	Sweden
##	[503]	Germany	Spain
##	[505]	Argentina	Italy
##	[507]	Nigeria	Italy
##	[509]	Brazil	England
##	[511]	Canada	Turkey
##	[513]	France	Cameroon
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## [16833]	Japan	England
## [16835]	England	Republic of Ireland
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## [16845]	Switzerland	Switzerland

## [16847]	France	Spain
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## [17039]	Republic of Ireland	Saudi Arabia
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## [17115]	Saudi Arabia	Saudi Arabia
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## [17139]	Republic of Ireland	Italy
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## [17143]	Italy	Portugal
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## [17149]	India	Hong Kong
## [17151]	England	England
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## [17159]	Norway	Scotland
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## [17169]	Northern Ireland	Australia

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## [17237] Wales	Ghana
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## [17249] Wales	Japan
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## [17259] England	Scotland
## [17261] England	Korea Republic
## [17263] Poland	Saudi Arabia
## [17265] Bosnia Herzegovina	Northern Ireland
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## [17269] Wales	Germany
## [17271] Italy	China PR
## [17273] Republic of Ireland	Switzerland
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## [17277] FYR Macedonia	Saudi Arabia

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## [17307]	South Africa	Norway
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## [17339]	Mexico	Congo
## [17341]	Japan	France
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## [17345]	Italy	Italy
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## [17377]	Norway	France
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## [17381]	Italy	Italy
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## [17385]	Angola	Iceland

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## [17509]	Switzerland	Austria
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## [17589]	Australia	Saudi Arabia
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## [17593]	Haiti	Mexico
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## [17601]	Australia	England

## [17603]	Italy	Switzerland
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## [17621]	Colombia	Italy
## [17623]	Denmark	Switzerland
## [17625]	Switzerland	England
## [17627]	Denmark	Denmark
## [17629]	Denmark	Scotland
## [17631]	Denmark	England
## [17633]	France	Republic of Ireland
## [17635]	Australia	Australia
## [17637]	Italy	Spain
## [17639]	Scotland	Republic of Ireland
## [17641]	Republic of Ireland	Korea Republic
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## [17649]	France	Germany
## [17651]	Republic of Ireland	Switzerland
## [17653]	Switzerland	England
## [17655]	England	England
## [17657]	Scotland	Cyprus
## [17659]	England	Saudi Arabia
## [17661]	Denmark	France
## [17663]	England	Denmark
## [17665]	Republic of Ireland	France
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## [17669]	Germany	Norway
## [17671]	Republic of Ireland	Norway
## [17673]	England	Scotland
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## [17677]	Italy	Germany
## [17679]	England	Finland
## [17681]	Republic of Ireland	Japan
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## [17685]	Italy	Finland
## [17687]	Mexico	Finland
## [17689]	Japan	Scotland
## [17691]	Germany	England
## [17693]	Germany	Slovakia
## [17695]	Bosnia Herzegovina	Saudi Arabia
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## [17699]	Germany	Republic of Ireland
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## [17703]	England	England
## [17705]	England	Scotland
## [17707]	Norway	Scotland
## [17709]	Switzerland	Denmark

## [17711]	Italy	England
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## [17833]	England	Scotland
## [17835]	Switzerland	Australia
## [17837]	Mexico	Sweden
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## [17841]	Denmark	England
## [17843]	Sweden	Denmark
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## [17849]	Japan	England
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## [17853]	Denmark	Switzerland
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## [17857]	Germany	Russia
## [17859]	Ghana	Australia
## [17861]	Republic of Ireland	Norway
## [17863]	Norway	Scotland
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## [17871]	Japan	Republic of Ireland
## [17873]	Denmark	England
## [17875]	Saudi Arabia	England
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## [17879]	Germany	Afghanistan
## [17881]	Mexico	Republic of Ireland
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## [17885]	Australia	Republic of Ireland
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## [17889]	Republic of Ireland	England
## [17891]	England	Republic of Ireland
## [17893]	Germany	Brazil
## [17895]	Poland	England
## [17897]	Argentina	United States
## [17899]	Northern Ireland	Republic of Ireland
## [17901]	Germany	England
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## [17915]	Republic of Ireland	Switzerland
## [17917]	England	Japan
## [17919]	Japan	England
## [17921]	Republic of Ireland	Germany
## [17923]	Republic of Ireland	Japan
## [17925]	Japan	Switzerland

```
## [17927] Republic of Ireland Scotland
## [17929] Colombia England
## [17931] Germany Republic of Ireland
## [17933] Scotland England
## [17935] Republic of Ireland Republic of Ireland
## [17937] England Russia
## [17939] Wales Republic of Ireland
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## [17947] Japan Northern Ireland
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## [17969] England Austria
## [17971] England England
## [17973] Republic of Ireland England
## [17975] England Germany
## [17977] England England
## [17979] Scotland England
## [17981] Ghana
## 165 Levels: Afghanistan Albania Algeria Angola ... Zimbabwe
```

```
a <- table(data1$Nationality)

triala = as.data.frame(a)
#View(triala)
sort(triala$Freq, decreasing=TRUE)
```

```
## [1] 1630 1140 1019 978 965 812 799 592 469 429 417 381 375 368
## [15] 367 360 346 337 333 330 329 306 300 291 272 266 233 227
## [29] 153 133 129 126 123 117 109 101 98 86 86 78 77 73
## [43] 69 65 64 62 59 58 57 55 55 53 51 49 46 38
## [57] 37 37 37 35 33 32 32 31 31 30 30 30 30 29
## [71] 25 25 22 22 17 17 16 16 15 15 14 14 14 14
## [85] 13 12 12 12 11 11 11 9 9 9 9 9 8 8
## [99] 8 7 7 7 7 6 6 6 6 6 6 6 5 5
## [113] 5 4 4 4 4 4 4 3 3 3 3 3 3 3
## [127] 3 3 3 2 2 2 2 2 2 2 2 2 2 2
## [141] 2 2 2 2 1 1 1 1 1 1 1 1 1 1
## [155] 1 1 1 1 1 1 1 1 1 1 1 1
```

```
triala$freq_percent = (triala$Freq / sum(triala$Freq))*100
triala$dummy <- as.numeric(triala$freq_percent >=5)

for (i in 1:nrow(triala)){
  if(triala$dummy == 0) triala$dummy2[i]=c("other")
  else
    triala$dummy2[i] == triala$Var1[i]
}
```


[illegible]

[illegible]

[illegible]

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

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## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
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```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
```

[illegible]

[illegible]

[illegible]


```
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```

```
## Warning in if (triala$dummy == 0) triala$dummy2[i] = c("other") else
## triala$dummy2[i] == : the condition has length > 1 and only the first
## element will be used
```

```
#Removing all the unnecessary variables from the dataset
```

```
data2 <- subset(data1, select = -c(Name, Photo, Flag, Club.Logo, Value, Wage, Preferred.Positions, Nationality, Club))
str(data2)
```

```

## 'data.frame': 17981 obs. of 66 variables:
## $ X : int 0 1 2 3 4 5 6 7 8 9 ...
## $ Age : int 32 30 25 30 31 28 26 26 27 29 ...
## $ Overall : int 94 93 92 92 92 91 90 90 90 90 ...
## $ Potential : int 94 93 94 92 92 91 92 91 90 90 ...
## $ Special : int 2228 2154 2100 2291 1493 2143 1458 2096 2165 1961 ...
## $ Acceleration : Factor w/ 161 levels "11","12","13",...: 151 156 159 150 57 130 55 158
63 126 ...
## $ Aggression : Factor w/ 151 levels "11","12","13",...: 79 44 59 124 20 129 31 57 72 4
8 ...
## $ Agility : Factor w/ 146 levels "14","15","16",...: 139 140 146 136 49 118 64 143
101 110 ...
## $ Balance : Factor w/ 135 levels "11","15","16",...: 63 134 115 57 23 109 31 130 82
82 ...
## $ Ball.control : Factor w/ 184 levels "10","11","12",...: 182 184 184 180 49 177 40 181
177 172 ...
## $ Composure : Factor w/ 161 levels "11","12","13",...: 160 161 159 150 123 154 97 154
152 153 ...
## $ Crossing : Factor w/ 176 levels "10","11","12",...: 168 155 153 155 6 100 8 162 16
8 130 ...
## $ Curve : Factor w/ 153 levels "10","11","12",...: 141 150 141 147 5 133 12 143 1
46 126 ...
## $ Dribbling : Factor w/ 194 levels "10","11","11+6",...: 190 194 193 183 23 182 10 19
2 172 180 ...
## $ Finishing : Factor w/ 187 levels "10","11","12",...: 186 187 182 186 4 185 4 176 16
1 185 ...
## $ Free.kick.accuracy: Factor w/ 136 levels "10","11","12",...: 116 134 127 127 2 127 10 120 1
27 76 ...
## $ GK.diving : Factor w/ 100 levels "1","10","11",...: 66 45 98 17 100 7 99 3 2 30 ...
## $ GK.handling : Factor w/ 97 levels "1","10","11",...: 3 3 95 14 96 47 91 4 3 4 ...
## $ GK.kicking : Factor w/ 103 levels "1","10","11",...: 7 7 7 22 103 4 100 58 5 81 ...
## $ GK.positioning : Factor w/ 99 levels "1","10","11",...: 6 6 7 21 99 88 95 88 75 35 ...
## $ GK.reflexes : Factor w/ 102 levels "1","10","11",...: 3 85 3 22 100 2 102 85 2 2 ...
## $ Heading.accuracy : Factor w/ 158 levels "10","11","12",...: 151 118 87 136 16 147 12 68 61
149 ...
## $ Interceptions : Factor w/ 174 levels "10","11","11-Oct",...: 28 18 37 47 29 43 29 47 16
6 15 ...
## $ Jumping : Factor w/ 140 levels "13","15","16",...: 140 74 50 80 115 127 69 42 11
118 ...
## $ Long.passing : Factor w/ 188 levels "10","11","12",...: 168 182 162 119 98 122 67 174
188 98 ...
## $ Long.shots : Factor w/ 156 levels "10","11","12",...: 156 152 136 150 7 147 3 146 15
4 146 ...
## $ Marking : Factor w/ 183 levels "10","11","12",...: 16 4 15 30 1 23 4 23 108 3 ...
## $ Penalties : Factor w/ 117 levels "10","11","12",...: 109 96 104 109 41 104 32 110 9
5 88 ...
## $ Positioning : Factor w/ 171 levels "03-Oct","10",...: 171 170 167 169 4 168 4 161 151
169 ...
## $ Reactions : Factor w/ 158 levels "28","30","31",...: 158 157 151 156 148 154 151 14
8 149 151 ...
## $ Short.passing : Factor w/ 209 levels "10","11","12",...: 199 205 195 199 71 199 57 203
207 179 ...
## $ Shot.power : Factor w/ 153 levels "10","11","12",...: 153 143 134 146 17 147 24 131

```

```

146 147 ...
## $ Sliding.tackle      : Factor w/ 169 levels "10","11","12",...: 18 22 33 40 2 12 4 17 123 10
...
## $ Sprint.speed        : Factor w/ 194 levels "11","12","13",...: 188 178 185 143 69 165 61 178
48 155 ...
## $ Stamina             : Factor w/ 180 levels "12","13","14",...: 177 124 144 173 38 149 31 149
142 117 ...
## $ Standing.tackle     : Factor w/ 187 levels "10","11","12",...: 28 24 18 53 1 49 15 22 174 16
...
## $ Strength            : Factor w/ 168 levels "12","20","21",...: 137 65 48 137 144 148 72 73 11
4 151 ...
## $ Vision              : Factor w/ 173 levels "10","11","12",...: 165 170 160 164 127 154 119 16
6 168 127 ...
## $ Volleys             : Factor w/ 125 levels "10","11","12",...: 121 118 116 121 2 120 4 111 11
5 121 ...
## $ CAM                 : int    89 92 88 87 NA 84 NA 88 83 81 ...
## $ CB                  : int    53 45 46 58 NA 57 NA 47 72 46 ...
## $ CDM                 : int    62 59 59 65 NA 62 NA 61 82 52 ...
## $ CF                  : int    91 92 88 88 NA 87 NA 87 81 84 ...
## $ CM                  : int    82 84 79 80 NA 78 NA 81 87 71 ...
## $ ID                  : int    20801 158023 190871 176580 167495 188545 193080 183277 182521 167
664 ...
## $ LAM                 : int    89 92 88 87 NA 84 NA 88 83 81 ...
## $ LB                  : int    61 57 59 64 NA 58 NA 59 76 51 ...
## $ LCB                 : int    53 45 46 58 NA 57 NA 47 72 46 ...
## $ LCM                 : int    82 84 79 80 NA 78 NA 81 87 71 ...
## $ LDM                 : int    62 59 59 65 NA 62 NA 61 82 52 ...
## $ LF                  : int    91 92 88 88 NA 87 NA 87 81 84 ...
## $ LM                  : int    89 90 87 85 NA 82 NA 87 81 79 ...
## $ LS                  : int    92 88 84 88 NA 88 NA 82 77 87 ...
## $ LW                  : int    91 91 89 87 NA 84 NA 88 80 82 ...
## $ LWB                 : int    66 62 64 68 NA 61 NA 64 78 55 ...
## $ RAM                 : int    89 92 88 87 NA 84 NA 88 83 81 ...
## $ RB                  : int    61 57 59 64 NA 58 NA 59 76 51 ...
## $ RCB                 : int    53 45 46 58 NA 57 NA 47 72 46 ...
## $ RCM                 : int    82 84 79 80 NA 78 NA 81 87 71 ...
## $ RDM                 : int    62 59 59 65 NA 62 NA 61 82 52 ...
## $ RF                  : int    91 92 88 88 NA 87 NA 87 81 84 ...
## $ RM                  : int    89 90 87 85 NA 82 NA 87 81 79 ...
## $ RS                  : int    92 88 84 88 NA 88 NA 82 77 87 ...
## $ RW                  : int    91 91 89 87 NA 84 NA 88 80 82 ...
## $ RWB                 : int    66 62 64 68 NA 61 NA 64 78 55 ...
## $ ST                  : int    92 88 84 88 NA 88 NA 82 77 87 ...

```

```
#View(data2)
```

```
# Convert factor variables to integer
```

```

typeconversion <- function(columnname) {as.integer(levels(columnname))[columnname]}
df1 <- lapply(data2[c(6:39)], FUN = typeconversion)

```

```
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
```

[illegible]

```
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
## Warning in FUN(X[[i]], ...): NAs introduced by coercion
```

```
#View(df1)
str(df1)
```

```
## List of 34
## $ Acceleration      : int [1:17981] 89 92 94 88 58 79 57 93 60 78 ...
## $ Aggression         : int [1:17981] 63 48 56 78 29 80 38 54 60 50 ...
## $ Agility            : int [1:17981] 89 90 96 86 52 78 60 93 71 75 ...
## $ Balance            : int [1:17981] 63 95 82 60 35 80 43 91 69 69 ...
## $ Ball.control       : int [1:17981] 93 95 95 91 48 89 42 92 89 85 ...
## $ Composure          : int [1:17981] 95 96 92 83 70 87 64 87 85 86 ...
## $ Crossing           : int [1:17981] 85 77 75 77 15 62 17 80 85 68 ...
## $ Curve              : int [1:17981] 81 89 81 86 14 77 21 82 85 74 ...
## $ Dribbling          : int [1:17981] 91 97 96 86 30 85 18 93 79 84 ...
## $ Finishing          : int [1:17981] 94 95 89 94 13 91 13 83 76 91 ...
## $ Free.kick.accuracy: int [1:17981] 76 90 84 84 11 84 19 79 84 62 ...
## $ GK.diving          : int [1:17981] 7 6 9 27 91 15 90 11 10 5 ...
## $ GK.handling        : int [1:17981] 11 11 9 25 90 6 85 12 11 12 ...
## $ GK.kicking         : int [1:17981] 15 15 15 31 95 12 87 6 13 7 ...
## $ GK.positioning     : int [1:17981] 14 14 15 33 91 8 86 8 7 5 ...
## $ GK.reflexes        : int [1:17981] 11 8 11 37 89 10 90 8 10 10 ...
## $ Heading.accuracy   : int [1:17981] 88 71 62 77 25 85 21 57 54 86 ...
## $ Interceptions      : int [1:17981] 29 22 36 41 30 39 30 41 85 20 ...
## $ Jumping            : int [1:17981] 95 68 61 69 78 84 67 59 32 79 ...
## $ Long.passing       : int [1:17981] 77 87 75 64 59 65 51 81 93 59 ...
## $ Long.shots         : int [1:17981] 92 88 77 86 16 83 12 82 90 82 ...
## $ Marking            : int [1:17981] 22 13 21 30 10 25 13 25 63 12 ...
## $ Penalties          : int [1:17981] 85 74 81 85 47 81 40 86 73 70 ...
## $ Positioning        : int [1:17981] 95 93 90 92 12 91 12 85 79 92 ...
## $ Reactions          : int [1:17981] 96 95 88 93 85 91 88 85 86 88 ...
## $ Short.passing      : int [1:17981] 83 88 81 83 55 83 50 86 90 75 ...
## $ Shot.power         : int [1:17981] 94 85 80 87 25 88 31 79 87 88 ...
## $ Sliding.tackle     : int [1:17981] 23 26 33 38 11 19 13 22 69 18 ...
## $ Sprint.speed       : int [1:17981] 91 87 90 77 61 83 58 87 52 80 ...
## $ Stamina            : int [1:17981] 92 73 78 89 44 79 40 79 77 72 ...
## $ Standing.tackle    : int [1:17981] 31 28 24 45 10 42 21 27 82 22 ...
## $ Strength           : int [1:17981] 80 59 53 80 83 84 64 65 74 85 ...
## $ Vision             : int [1:17981] 85 90 80 84 70 78 68 86 88 70 ...
## $ Volleys            : int [1:17981] 88 85 83 88 11 87 13 79 82 88 ...
```

```
#Convert list to dataframe  
df2 <- as.data.frame(df1)  
df2 <- cbind(data2[c(1:5,40:66)], df2)  
#View(df2)  
str(df2)
```



```
## 'data.frame': 17981 obs. of 66 variables:
## $ X : int 0 1 2 3 4 5 6 7 8 9 ...
## $ Age : int 32 30 25 30 31 28 26 26 27 29 ...
## $ Overall : int 94 93 92 92 92 91 90 90 90 90 ...
## $ Potential : int 94 93 94 92 92 91 92 91 90 90 ...
## $ Special : int 2228 2154 2100 2291 1493 2143 1458 2096 2165 1961 ...
## $ CAM : int 89 92 88 87 NA 84 NA 88 83 81 ...
## $ CB : int 53 45 46 58 NA 57 NA 47 72 46 ...
## $ CDM : int 62 59 59 65 NA 62 NA 61 82 52 ...
## $ CF : int 91 92 88 88 NA 87 NA 87 81 84 ...
## $ CM : int 82 84 79 80 NA 78 NA 81 87 71 ...
## $ ID : int 20801 158023 190871 176580 167495 188545 193080 183277 182521 167
664 ...
## $ LAM : int 89 92 88 87 NA 84 NA 88 83 81 ...
## $ LB : int 61 57 59 64 NA 58 NA 59 76 51 ...
## $ LCB : int 53 45 46 58 NA 57 NA 47 72 46 ...
## $ LCM : int 82 84 79 80 NA 78 NA 81 87 71 ...
## $ LDM : int 62 59 59 65 NA 62 NA 61 82 52 ...
## $ LF : int 91 92 88 88 NA 87 NA 87 81 84 ...
## $ LM : int 89 90 87 85 NA 82 NA 87 81 79 ...
## $ LS : int 92 88 84 88 NA 88 NA 82 77 87 ...
## $ LW : int 91 91 89 87 NA 84 NA 88 80 82 ...
## $ LWB : int 66 62 64 68 NA 61 NA 64 78 55 ...
## $ RAM : int 89 92 88 87 NA 84 NA 88 83 81 ...
## $ RB : int 61 57 59 64 NA 58 NA 59 76 51 ...
## $ RCB : int 53 45 46 58 NA 57 NA 47 72 46 ...
## $ RCM : int 82 84 79 80 NA 78 NA 81 87 71 ...
## $ RDM : int 62 59 59 65 NA 62 NA 61 82 52 ...
## $ RF : int 91 92 88 88 NA 87 NA 87 81 84 ...
## $ RM : int 89 90 87 85 NA 82 NA 87 81 79 ...
## $ RS : int 92 88 84 88 NA 88 NA 82 77 87 ...
## $ RW : int 91 91 89 87 NA 84 NA 88 80 82 ...
## $ RWB : int 66 62 64 68 NA 61 NA 64 78 55 ...
## $ ST : int 92 88 84 88 NA 88 NA 82 77 87 ...
## $ Acceleration : int 89 92 94 88 58 79 57 93 60 78 ...
## $ Aggression : int 63 48 56 78 29 80 38 54 60 50 ...
## $ Agility : int 89 90 96 86 52 78 60 93 71 75 ...
## $ Balance : int 63 95 82 60 35 80 43 91 69 69 ...
## $ Ball.control : int 93 95 95 91 48 89 42 92 89 85 ...
## $ Composure : int 95 96 92 83 70 87 64 87 85 86 ...
## $ Crossing : int 85 77 75 77 15 62 17 80 85 68 ...
## $ Curve : int 81 89 81 86 14 77 21 82 85 74 ...
## $ Dribbling : int 91 97 96 86 30 85 18 93 79 84 ...
## $ Finishing : int 94 95 89 94 13 91 13 83 76 91 ...
## $ Free.kick.accuracy: int 76 90 84 84 11 84 19 79 84 62 ...
## $ GK.diving : int 7 6 9 27 91 15 90 11 10 5 ...
## $ GK.handling : int 11 11 9 25 90 6 85 12 11 12 ...
## $ GK.kicking : int 15 15 15 31 95 12 87 6 13 7 ...
## $ GK.positioning : int 14 14 15 33 91 8 86 8 7 5 ...
## $ GK.reflexes : int 11 8 11 37 89 10 90 8 10 10 ...
## $ Heading.accuracy : int 88 71 62 77 25 85 21 57 54 86 ...
## $ Interceptions : int 29 22 36 41 30 39 30 41 85 20 ...
## $ Jumping : int 95 68 61 69 78 84 67 59 32 79 ...
```

```
## $ Long.passing      : int  77 87 75 64 59 65 51 81 93 59 ...
## $ Long.shots        : int  92 88 77 86 16 83 12 82 90 82 ...
## $ Marking           : int  22 13 21 30 10 25 13 25 63 12 ...
## $ Penalties         : int  85 74 81 85 47 81 40 86 73 70 ...
## $ Positioning       : int  95 93 90 92 12 91 12 85 79 92 ...
## $ Reactions         : int  96 95 88 93 85 91 88 85 86 88 ...
## $ Short.passing     : int  83 88 81 83 55 83 50 86 90 75 ...
## $ Shot.power        : int  94 85 80 87 25 88 31 79 87 88 ...
## $ Sliding.tackle    : int  23 26 33 38 11 19 13 22 69 18 ...
## $ Sprint.speed      : int  91 87 90 77 61 83 58 87 52 80 ...
## $ Stamina          : int  92 73 78 89 44 79 40 79 77 72 ...
## $ Standing.tackle   : int  31 28 24 45 10 42 21 27 82 22 ...
## $ Strength          : int  80 59 53 80 83 84 64 65 74 85 ...
## $ Vision            : int  85 90 80 84 70 78 68 86 88 70 ...
## $ Volleys           : int  88 85 83 88 11 87 13 79 82 88 ...
```

```
#Here, we filled all the blanks with NA and omitted all the NA's from the data
df2[df2 == ""] <- NA
df2 <- na.omit(df2)
```

#Divide the data into train and test data

```
set.seed(1)
row.number <- sample(x=1:nrow(df2), size=0.7*nrow(df2))
train = df2[row.number,]
test = df2[-row.number,]
head(train)
```

##	X Age		Overall	Potential	Special	CAM	CB	CDM	CF	CM	ID	LAM	LB						
## 1204	1203	25	77	81	1980	72	72	77	71	76	199158	72	72						
## 9223	9222	21	66	76	1820	65	62	64	65	65	234093	65	64						
## 5517	5516	26	70	74	1718	55	69	65	54	59	188602	55	67						
## 11978	11977	23	63	67	1771	60	61	61	58	61	229895	60	62						
## 15306	15305	20	59	69	1397	52	36	37	56	45	234881	52	39						
## 11214	11213	22	64	72	1478	53	37	35	59	44	200779	53	38						
##	LCB	LCM	LDM	LF	LM	LS	LW	LWB	RAM	RB	RCB	RCM	RDM	RF	RM	RS	RW	RWB	ST
## 1204	72	76	77	71	70	69	68	72	72	72	72	76	77	71	70	69	68	72	69
## 9223	62	65	64	65	65	63	65	65	65	64	62	65	64	65	65	63	65	65	63
## 5517	69	59	65	54	59	53	56	66	55	67	69	59	65	54	59	53	56	66	53
## 11978	61	61	61	58	62	57	61	62	60	62	61	61	61	58	62	57	61	62	57
## 15306	36	45	37	56	53	58	55	41	52	39	36	45	37	56	53	58	55	41	58
## 11214	37	44	35	59	55	63	58	40	53	38	37	44	35	59	55	63	58	40	63
##	Acceleration			Aggression			Agility			Balance			Ball.control			Composure			
## 1204	70			74			71			67			76			83			
## 9223	69			58			72			71			68			60			
## 5517	73			75			58			56			58			61			
## 11978	68			68			65			67			63			55			
## 15306	67			55			68			67			56			51			
## 11214	80			58			67			59			61			45			
##	Crossing		Curve		Dribbling		Finishing		Free.kick.accuracy					GK.diving					
## 1204	48		59		61		60		50					12					
## 9223	59		53		67		65		62					8					
## 5517	66		30		65		27		55					9					
## 11978	69		64		64		50		55					10					
## 15306	41		37		55		64		27					10					
## 11214	44		40		62		61		27					14					
##	GK.handling		GK.kicking		GK.positioning		GK.reflexes		Heading.accuracy										
## 1204	13		16		16		8		51										
## 9223	7		11		11		13		55										
## 5517	12		9		10		12		68										
## 11978	9		23		10		13		56										
## 15306	5		7		8		14		53										
## 11214	7		10		6		11		63										
##	Interceptions		Jumping		Long.passing		Long.shots		Marking		Penalties								
## 1204	80		71		80		73		64		41								
## 9223	64		68		62		64		61		50								
## 5517	68		91		62		49		65		25								
## 11978	61		76		65		57		58		60								
## 15306	25		64		26		48		18		54								
## 11214	18		73		29		64		10		65								
##	Positioning		Reactions		Short.passing		Shot.power		Sliding.tackle										
## 1204	72		79		78		81		70										
## 9223	59		62		64		61		62										
## 5517	28		60		57		71		65										
## 11978	49		55		62		57		60										
## 15306	56		51		46		59		16										
## 11214	58		58		33		79		12										
##	Sprint.speed		Stamina		Standing.tackle		Strength		Vision		Volleys								
## 1204	68		85		81		73		73		59								
## 9223	72		78		61		68		64		51								
## 5517	74		78		69		88		60		25								

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## 11978	64	66	60	61	60	46
## 15306	72	67	16	67	44	34
## 11214	80	59	15	82	34	39

head(test)

##	X	Age	Overall	Potential	Special	CAM	CB	CDM	CF	CM	ID	LAM	LB	LCB	LCM				
## 1	0	32	94	94	2228	89	53	62	91	82	20801	89	61	53	82				
## 2	1	30	93	93	2154	92	45	59	92	84	158023	92	57	45	84				
## 14	13	28	89	89	2181	85	56	64	85	79	184941	85	62	56	79				
## 15	14	31	89	89	2228	86	72	80	83	86	177003	86	78	72	86				
## 22	21	26	88	91	2104	84	48	57	85	76	194765	84	56	48	76				
## 25	24	30	88	88	1995	68	86	83	66	75	184344	68	79	86	75				
##	LDM	LF	LM	LS	LW	LWB	RAM	RB	RCB	RCM	RDM	RF	RM	RS	RW	RWB	ST	Acceleration	
## 1	62	91	89	92	91	66	89	61	53	82	62	91	89	92	91	66	92	89	
## 2	59	92	90	88	91	62	92	57	45	84	59	92	90	88	91	62	88	92	
## 14	64	85	85	83	86	66	85	62	56	79	64	85	85	83	86	66	83	88	
## 15	80	83	84	76	83	80	86	78	72	86	80	83	84	76	83	80	76	75	
## 22	57	85	84	85	86	60	84	56	48	76	57	85	84	85	86	60	85	87	
## 25	83	66	66	65	63	76	68	79	86	75	83	66	66	65	63	76	65	62	
##	Aggression			Agility			Balance			Ball.control			Composure			Crossing			Curve
## 1	63			89			63			93			95			85			81
## 2	48			90			95			95			96			77			89
## 14	80			90			87			87			86			80			78
## 15	62			93			94			92			84			78			79
## 22	69			90			80			86			86			82			84
## 25	82			60			52			75			84			44			56
##	Dribbling			Finishing			Free.kick.accuracy			GK.diving			GK.handling			GK.kicking			
## 1	91			94			76			7			11			15			
## 2	97			95			90			6			11			15			
## 14	90			85			78			10			10			15			
## 15	86			71			77			13			9			7			
## 22	87			88			75			14			8			14			
## 25	69			39			61			2			2			3			
##	GK.positioning			GK.reflexes			Heading.accuracy			Interceptions			Jumping						
## 1	14			11			88			29			95						
## 2	14			8			71			22			68						
## 14	12			13			70			42			85						
## 15	14			9			55			76			67						
## 22	13			14			80			35			87						
## 25	2			4			88			90			85						
##	Long.passing			Long.shots			Marking			Penalties			Positioning			Reactions			
## 1	77			92			22			85			95			96			
## 2	87			88			13			74			93			95			
## 14	73			82			30			77			86			87			
## 15	83			82			66			80			79			88			
## 22	75			82			23			71			91			90			
## 25	85			65			84			70			38			86			
##	Short.passing			Shot.power			Sliding.tackle			Sprint.speed			Stamina						
## 1	83			94			23			91			92						
## 2	88			85			26			87			73						
## 14	81			84			35			84			85						
## 15	92			73			73			71			82						
## 22	79			81			11			86			76						
## 25	79			74			88			72			73						
##	Standing.tackle			Strength			Vision			Volleys									
## 1	31			80			85			88									
## 2	28			59			90			85									
## 14	39			72			83			83									

## 15	80	58	90	74
## 22	22	61	76	87
## 25	88	85	74	58

##Optimization

#PCA #prepare data for pca

```
pca.data <- subset(df2, select = -c(3))  
df2.pca <- prcomp(pca.data, retx = TRUE, center = TRUE, scale. = TRUE)  
summary(df2.pca)
```

```

## Importance of components:
##          PC1      PC2      PC3      PC4      PC5      PC6
## Standard deviation  5.3515 4.0032 1.92192 1.43078 1.25656 1.14450
## Proportion of Variance 0.4406 0.2465 0.05683 0.03149 0.02429 0.02015
## Cumulative Proportion 0.4406 0.6871 0.74397 0.77546 0.79975 0.81990
##          PC7      PC8      PC9      PC10     PC11     PC12
## Standard deviation  0.96248 0.95546 0.94625 0.94182 0.92752 0.8757
## Proportion of Variance 0.01425 0.01404 0.01378 0.01365 0.01324 0.0118
## Cumulative Proportion 0.83415 0.84820 0.86197 0.87562 0.88886 0.9006
##          PC13     PC14     PC15     PC16     PC17     PC18
## Standard deviation  0.84844 0.73080 0.69221 0.66916 0.62170 0.60379
## Proportion of Variance 0.01107 0.00822 0.00737 0.00689 0.00595 0.00561
## Cumulative Proportion 0.91173 0.91994 0.92732 0.93420 0.94015 0.94576
##          PC19     PC20     PC21     PC22     PC23     PC24
## Standard deviation  0.57945 0.55921 0.5345 0.51506 0.51328 0.47439
## Proportion of Variance 0.00517 0.00481 0.0044 0.00408 0.00405 0.00346
## Cumulative Proportion 0.95093 0.95574 0.9601 0.96421 0.96827 0.97173
##          PC25     PC26     PC27     PC28     PC29     PC30
## Standard deviation  0.46838 0.45176 0.43269 0.41739 0.40723 0.39176
## Proportion of Variance 0.00338 0.00314 0.00288 0.00268 0.00255 0.00236
## Cumulative Proportion 0.97510 0.97824 0.98112 0.98380 0.98635 0.98872
##          PC31     PC32     PC33     PC34     PC35     PC36
## Standard deviation  0.35211 0.34980 0.34482 0.31849 0.30652 0.26043
## Proportion of Variance 0.00191 0.00188 0.00183 0.00156 0.00145 0.00104
## Cumulative Proportion 0.99062 0.99251 0.99434 0.99590 0.99734 0.99838
##          PC37     PC38     PC39     PC40     PC41     PC42
## Standard deviation  0.23079 0.18353 0.05274 0.05099 0.04807 0.04457
## Proportion of Variance 0.00082 0.00052 0.00004 0.00004 0.00004 0.00003
## Cumulative Proportion 0.99920 0.99972 0.99977 0.99981 0.99984 0.99987
##          PC43     PC44     PC45     PC46     PC47     PC48
## Standard deviation  0.04358 0.04273 0.04155 0.03881 0.02862 0.02446
## Proportion of Variance 0.00003 0.00003 0.00003 0.00002 0.00001 0.00001
## Cumulative Proportion 0.99990 0.99993 0.99996 0.99998 0.99999 1.00000
##          PC49     PC50     PC51     PC52     PC53
## Standard deviation  5.85e-15 2.242e-15 9.227e-16 6.004e-16 5.994e-16
## Proportion of Variance 0.00e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
## Cumulative Proportion 1.00e+00 1.000e+00 1.000e+00 1.000e+00 1.000e+00
##          PC54     PC55     PC56     PC57     PC58
## Standard deviation  4.173e-16 4.173e-16 4.173e-16 4.173e-16 4.173e-16
## Proportion of Variance 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
## Cumulative Proportion 1.000e+00 1.000e+00 1.000e+00 1.000e+00 1.000e+00
##          PC59     PC60     PC61     PC62     PC63
## Standard deviation  4.173e-16 4.173e-16 4.173e-16 4.173e-16 4.173e-16
## Proportion of Variance 0.000e+00 0.000e+00 0.000e+00 0.000e+00 0.000e+00
## Cumulative Proportion 1.000e+00 1.000e+00 1.000e+00 1.000e+00 1.000e+00
##          PC64     PC65
## Standard deviation  4.173e-16 1.988e-16
## Proportion of Variance 0.000e+00 0.000e+00
## Cumulative Proportion 1.000e+00 1.000e+00

```

```
#df2.pca$x
```

```
pcamodeldata <- as.data.frame(cbind(df2$Overall,(df2.pca$x)))  
row.number <- sample(x=1:nrow(pcamodeldata), size=0.7*nrow(pcamodeldata))  
pcatrain = pcamodeldata[row.number,]  
pcatest = pcamodeldata[-row.number,]  
head(pcatrain)
```


##	V1	PC1	PC2	PC3	PC4	PC5	
## 4998	70	-3.11252968	4.406253	2.4331137	0.5468162	-0.4081389	
## 11636	64	-0.25416361	4.473606	1.9445143	-0.6557164	-0.3016608	
## 13589	62	-0.03533708	-1.296327	1.5914605	-0.7000758	0.3280884	
## 8348	67	-3.17362164	4.861698	0.2574439	-0.9221915	-2.2802505	
## 3655	72	3.64826048	-5.848155	-3.0622540	-1.3452903	0.5411090	
## 16248	57	6.88503651	-1.037465	2.5400035	0.5799195	-1.3754099	
##		PC6	PC7	PC8	PC9	PC10	PC11
## 4998		1.15058331	-0.1554047	-0.8866585	-1.50216507	1.02087476	1.0355401
## 11636		0.76430502	0.4018166	-0.2420489	0.39116059	0.02308812	-0.9257032
## 13589		0.73223299	-0.4311503	-1.0975340	-1.76561830	1.34536020	-0.7493099
## 8348		1.89721985	0.8267067	0.4362884	1.82287262	-0.15677798	1.4257059
## 3655		0.50906691	-1.7141892	0.5819166	-0.40805447	0.38948041	1.9313710
## 16248		-0.09716809	-1.0191029	0.3339904	-0.09655232	-0.63448416	0.2767205
##		PC12	PC13	PC14	PC15	PC16	PC17
## 4998		0.50338608	-0.6882124	-0.6013061	0.32982920	-0.7007730	0.06119895
## 11636		-0.07991684	1.0712422	0.9362734	-0.32916385	0.7021588	-0.02116868
## 13589		0.32209982	-1.1157237	-1.2666104	0.73961400	0.7243162	0.45992999
## 8348		0.54396406	-0.1795077	0.4489733	-1.18755911	1.1937148	0.80580670
## 3655		-0.76157621	1.1337600	-0.9879383	-0.08288977	0.5016540	-0.18590369
## 16248		0.20182947	-1.3514457	1.4352274	-0.36611182	-0.7817569	0.56620903
##		PC18	PC19	PC20	PC21	PC22	
## 4998		0.04176823	-0.4165634	-0.74341401	-0.32289137	0.88604282	
## 11636		-0.45370214	1.1761269	-1.14236480	0.89765042	-0.46252618	
## 13589		0.87624880	0.2054944	0.06556803	0.05831551	-0.06483092	
## 8348		-0.12449582	-0.7056715	-0.65876419	0.77965276	-0.64954672	
## 3655		0.75705127	-0.1241038	0.33886151	-0.15487869	-0.56121855	
## 16248		0.35485565	1.0654609	-0.95844078	0.84005884	-0.30488957	
##		PC23	PC24	PC25	PC26	PC27	
## 4998		-0.67024674	-0.07004326	0.1213797	-0.20950141	-0.43738081	
## 11636		-0.20641063	-0.23867033	0.7950323	0.08912642	-0.31454239	
## 13589		-0.09668324	0.09476995	-0.2229507	0.16411168	0.13240675	
## 8348		-0.18761310	-0.76093781	-0.3922119	0.11190225	-0.01048403	
## 3655		0.10455721	0.50423684	0.1888839	0.17578671	0.07059404	
## 16248		0.85087394	0.19585499	-0.4502450	0.14132911	-0.48601047	
##		PC28	PC29	PC30	PC31	PC32	
## 4998		0.6804038	-0.09232371	0.08179225	0.53883594	0.006005738	
## 11636		0.7795915	-0.37869141	0.01440641	0.12453513	-0.083651241	
## 13589		-0.2624019	-0.20856115	0.43470072	0.02961295	-0.163198347	
## 8348		0.1159165	-0.02443946	0.07799726	-0.47633964	0.268277370	
## 3655		0.2035471	0.81896117	-0.51078264	-0.30159762	0.509205274	
## 16248		-0.3430565	0.04355669	0.39796392	0.17887575	-0.177493466	
##		PC33	PC34	PC35	PC36	PC37	
## 4998		0.15664883	-0.14600811	0.49888608	-0.44928634	0.13635949	
## 11636		0.06044872	0.34559081	0.08525963	0.02199582	0.07254602	
## 13589		0.09882960	0.01556009	-0.08028983	0.29413172	0.13551561	
## 8348		-0.04220603	0.11074439	-0.19030453	-0.14876614	0.04210122	
## 3655		-0.27315120	-0.19886701	0.48756984	-0.12422817	-0.02109453	
## 16248		-0.31723727	0.33720990	0.05752245	-0.33453225	0.03026870	
##		PC38	PC39	PC40	PC41	PC42	
## 4998		-0.089114843	0.07095584	0.076885794	0.059638039	0.01057447	
## 11636		0.057308031	0.01493212	-0.042792899	0.007406157	-0.04642019	
## 13589		-0.141528383	0.09996142	0.023568880	0.053980668	-0.02922151	

```

## 8348 0.225856312 -0.05845577 -0.004237564 0.069342528 -0.04228717
## 3655 -0.018622462 0.01501116 0.008722437 0.075905864 0.01876223
## 16248 -0.005819869 0.02511284 -0.030717814 -0.010091793 -0.05355662
##          PC43          PC44          PC45          PC46          PC47
## 4998 -0.035023728 -0.00678905 0.01792036 -0.04493808 -0.013492786
## 11636 -0.086291536 -0.01112473 -0.01383028 -0.04281226 -0.004699823
## 13589 0.058530579 -0.04590198 0.03039006 -0.04077281 -0.060525866
## 8348 0.015563053 -0.03359773 -0.03951964 -0.01346948 0.008225819
## 3655 0.033457185 0.03220517 0.03932229 0.02293600 0.040686419
## 16248 -0.001781291 0.03315647 0.01558254 -0.05149718 -0.030778633
##          PC48          PC49          PC50          PC51
## 4998 -1.900842e-02 4.857226e-16 4.640385e-17 -2.332390e-15
## 11636 6.993948e-05 -8.777701e-16 -4.194778e-16 -1.035620e-15
## 13589 2.121659e-02 -5.957040e-15 9.753483e-16 1.657474e-16
## 8348 3.617629e-02 -4.891920e-16 -1.243797e-15 -2.155123e-15
## 3655 -2.062592e-02 9.750881e-15 2.758210e-16 1.656119e-17
## 16248 1.773836e-02 1.817990e-15 2.071260e-15 8.798301e-16
##          PC52          PC53          PC54          PC55
## 4998 1.959695e-17 -5.743019e-16 -2.516975e-16 2.404561e-16
## 11636 3.521929e-16 5.139254e-16 2.792956e-16 7.093391e-16
## 13589 -9.980894e-16 3.234311e-17 -9.069080e-16 -4.282927e-16
## 8348 1.601394e-15 -3.442342e-18 1.086994e-15 4.203274e-16
## 3655 1.569830e-15 9.410875e-17 6.454832e-16 -7.062169e-16
## 16248 1.148495e-15 1.957527e-16 -8.646512e-16 3.436472e-16
##          PC56          PC57          PC58          PC59
## 4998 -6.455662e-17 -2.804975e-16 -2.451410e-16 4.372486e-16
## 11636 -1.057821e-15 -1.767898e-16 -7.549381e-16 8.879229e-17
## 13589 5.103035e-17 2.091367e-16 1.294438e-16 1.979846e-16
## 8348 2.486330e-16 -9.262678e-16 -2.059593e-16 -1.428680e-16
## 3655 3.687092e-16 2.003610e-16 4.874706e-16 5.266834e-16
## 16248 -1.389629e-15 9.600238e-16 -1.038628e-15 1.302364e-16
##          PC60          PC61          PC62          PC63
## 4998 -6.832501e-16 -6.268264e-16 8.815241e-17 -8.336710e-17
## 11636 -3.771192e-16 -3.314158e-16 3.225233e-16 -2.789695e-16
## 13589 -8.577116e-16 6.750853e-18 -4.260525e-16 -2.584789e-16
## 8348 1.818894e-16 -1.969877e-16 6.542923e-16 -1.433044e-16
## 3655 -1.532846e-16 1.232374e-15 4.872345e-17 1.766324e-16
## 16248 -1.726008e-16 -6.052897e-16 -6.094504e-16 -2.943880e-16
##          PC64          PC65
## 4998 -5.606931e-16 4.848078e-17
## 11636 -4.331584e-16 -1.227594e-16
## 13589 7.225388e-16 1.878160e-16
## 8348 -6.167245e-16 1.585951e-16
## 3655 3.701365e-16 1.576976e-16
## 16248 2.681402e-16 -5.528618e-16

```

```
head(pcatest)
```

##	V1	PC1	PC2	PC3	PC4	PC5	PC6
## 10	90	-11.521409	5.0126021	-4.0492884	3.075649	2.0803359	1.59948054
## 11	90	-9.637618	-8.5674057	-1.3333140	2.627248	0.7161111	1.28435911
## 12	89	-15.116619	0.1885754	-0.3470633	-0.154797	1.5839218	-1.11007682
## 14	89	-14.521766	1.5674641	-0.8436428	2.368036	-0.2742174	-0.59352877
## 15	89	-15.241310	-3.9414434	1.5706682	-1.037924	0.7564895	0.09419637
## 17	89	-13.771405	5.4056449	-2.2919210	2.304881	-0.3367659	-0.30904291
##		PC7	PC8	PC9	PC10	PC11	PC12
## 10		-0.40301770	1.3210150	0.64675872	0.5484780	1.8151951	-0.58629390
## 11		0.06452018	0.2856230	-0.68204586	-0.9900098	1.1224545	0.91380622
## 12		1.67955996	0.5660370	-1.24511756	0.7411707	0.9831762	0.36377501
## 14		-0.96627501	-0.5719271	0.43754019	-0.9271636	0.9863741	0.73486846
## 15		1.50212915	-1.4397460	0.07217591	-0.2184748	1.2923607	0.54041001
## 17		1.41484006	0.4826674	-0.15505476	0.6375433	2.8143669	0.09760068
##		PC13	PC14	PC15	PC16	PC17	PC18
## 10		0.18936147	0.1533227	-0.20966412	-0.5386010	0.2780904	-0.43501185
## 11		1.48535588	0.2121426	-0.34526482	-0.5387239	-0.5280982	-0.69070674
## 12		0.03966368	-1.5196603	-0.07816959	-0.4102478	0.6732787	-0.07687111
## 14		-0.09141610	-0.5699672	0.10190020	0.1156814	0.7645471	0.43439237
## 15		0.15438486	-0.2213600	1.46194312	-0.7128495	-0.4429173	-0.43175927
## 17		0.27515203	-0.6813021	0.27745257	0.3449212	0.4939438	-0.07192363
##		PC19	PC20	PC21	PC22	PC23	PC24
## 10		-0.75537383	-0.25681571	0.13778229	-0.3853883	0.35860645	0.04186922
## 11		0.48984066	0.08526374	0.41000713	-0.5456644	0.46145161	0.62040901
## 12		0.08363099	0.25722203	0.11732198	0.4224170	-0.45567604	0.65664180
## 14		0.51928587	0.07048180	-0.12830665	-0.1615640	0.06235309	0.10480967
## 15		0.22675257	0.90126150	0.40737600	0.5299182	0.56390396	0.25839953
## 17		0.26845599	0.41667876	-0.02001451	0.1321134	0.04913445	-0.29733399
##		PC25	PC26	PC27	PC28	PC29	PC30
## 10		-0.89943538	0.08417710	-0.05462296	-0.62345001	0.1939929	0.05826266
## 11		0.60634960	-0.13281345	0.23566509	-0.28205136	0.1742819	-0.39211157
## 12		-0.69593476	0.45088061	-0.48247066	-0.20735971	0.2001597	0.16397663
## 14		-0.49636758	0.17714650	-0.31383323	-0.19809644	0.4973380	0.23958168
## 15		-0.05495208	-0.13150973	-0.01653816	0.09168969	0.1680624	-0.02218979
## 17		-0.88391448	0.08982255	0.36224866	-0.56954306	0.3325507	0.22536005
##		PC31	PC32	PC33	PC34	PC35	PC36
## 10		0.000429941	0.04430788	0.012042348	-0.34679063	-0.04388786	1.0548755
## 11		-0.694087809	-0.69901764	0.287059120	0.12420355	-0.48353546	1.3046536
## 12		-0.080632004	-0.21904519	-0.003952197	0.20111234	0.23891899	1.0180809
## 14		-0.146215480	0.09082337	0.240098597	-0.14500021	0.02554829	0.9872610
## 15		0.164896828	-0.25512486	-0.276230665	-0.20921986	-0.04405498	1.0986499
## 17		0.074985706	-0.14924236	0.232442700	-0.08087061	-0.02539490	0.9300777
##		PC37	PC38	PC39	PC40	PC41	
## 10		0.20088227	0.06598335	0.118013304	-0.06841553	-0.04455171	
## 11		0.08613457	-0.14475165	0.018113250	0.02333500	-0.01968819	
## 12		0.41867976	0.19173662	-0.016480101	0.01197908	-0.06288257	
## 14		0.08797722	0.08439897	-0.003404725	-0.03088090	0.03253120	
## 15		0.21953950	0.12921000	0.040152798	0.05481834	0.03851311	
## 17		-0.03318777	0.16536658	0.050668849	-0.02699841	-0.10451111	
##		PC42	PC43	PC44	PC45	PC46	
## 10		-0.03544216	0.08060281	-0.001080509	-0.0357024223	-0.05398769	
## 11		0.01339623	-0.02662655	-0.090960400	0.0272031014	-0.03416988	
## 12		-0.08420234	0.08441097	-0.047565509	-0.0005288425	0.01168304	

```
## 14 0.12144652 0.01904417 0.056303217 -0.0068183036 -0.06770852
## 15 -0.02390844 -0.08669819 -0.005263185 0.0374783739 -0.00694428
## 17 0.00436805 -0.05754757 0.043461142 -0.0192349157 0.03036896
##          PC47          PC48          PC49          PC50          PC51
## 10 0.019705899 0.007507122 -2.498002e-16 -5.342948e-16 -2.966160e-15
## 11 -0.023435919 0.020787395 -7.160939e-15 -3.117298e-15 5.368861e-15
## 12 0.022435058 0.010434004 -1.249001e-14 -3.268219e-15 6.485697e-16
## 14 0.012969031 -0.003541354 -1.215694e-14 -2.942091e-15 4.623038e-16
## 15 0.006466714 0.004037109 -1.179612e-14 -4.461709e-15 4.765069e-16
## 17 0.027772460 0.007725856 -6.467049e-15 -2.445960e-15 -2.510579e-15
##          PC52          PC53          PC54          PC55          PC56
## 10 -1.322727e-17 -7.726025e-16 2.839634e-15 6.859044e-16 1.769045e-15
## 11 -3.758929e-16 1.006411e-16 3.283696e-15 2.853980e-16 2.724824e-15
## 12 -4.654480e-16 1.133804e-16 1.648855e-15 6.128834e-16 2.257058e-15
## 14 7.169829e-16 -1.036009e-15 2.290486e-15 8.965403e-16 2.047143e-15
## 15 3.135513e-16 1.554529e-15 3.801267e-15 8.603026e-16 2.811628e-15
## 17 6.797948e-16 -7.924434e-16 1.887813e-15 7.077164e-16 2.170397e-15
##          PC57          PC58          PC59          PC60          PC61
## 10 -1.368487e-15 2.118999e-15 -7.856010e-16 2.075608e-15 1.365065e-15
## 11 -6.127538e-16 4.594888e-15 7.134050e-17 1.558321e-15 2.873739e-15
## 12 -5.062208e-16 3.469887e-15 4.010430e-16 5.361850e-16 1.845407e-15
## 14 -9.733086e-16 3.454525e-15 1.091436e-16 8.939480e-16 1.515030e-15
## 15 -1.676753e-16 3.751428e-15 -4.129370e-16 8.936693e-16 2.107635e-15
## 17 -1.783648e-15 1.726338e-15 -1.383713e-16 1.416944e-15 1.356107e-15
##          PC62          PC63          PC64          PC65
## 10 -1.695963e-16 -3.467888e-16 -1.914611e-15 1.592707e-15
## 11 -1.723055e-15 -3.374088e-16 -4.097721e-16 9.867595e-16
## 12 -9.827208e-16 -8.822526e-16 -1.060679e-15 2.016792e-15
## 14 -1.246765e-15 -1.469704e-16 -1.219419e-15 2.926241e-15
## 15 -2.443202e-15 -7.192445e-16 -3.494428e-16 1.801002e-15
## 17 -2.315043e-16 -1.262553e-16 -1.527123e-15 2.556657e-15
```

##Linear Regression on PCA Components

```
pcamodel <- lm(formula = V1~., data = pcatrain)
summary(pcamodel)
```

```
##
## Call:
## lm(formula = V1 ~ ., data = pcatrain)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -7.5704 -0.6873 -0.0163  0.6892 10.3322
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  6.640e+01  2.415e-02 2749.290 < 2e-16 ***
## PC1          -1.251e+00  6.418e-02  -19.488 < 2e-16 ***
## PC2          -1.863e-01  5.537e-02   -3.364 0.000770 ***
## PC3          -1.184e+00  6.050e-02 -19.579 < 2e-16 ***
## PC4           1.003e+00  5.206e-02  19.262 < 2e-16 ***
## PC5           8.642e-01  8.121e-02  10.641 < 2e-16 ***
## PC6          -3.944e-02  2.230e-02   -1.769 0.076983 .
## PC7           8.432e-02  3.132e-02    2.692 0.007109 **
## PC8          -2.975e-01  4.681e-02   -6.357 2.14e-10 ***
## PC9           7.938e-01  5.316e-02  14.932 < 2e-16 ***
## PC10         -8.443e-01  5.849e-02 -14.435 < 2e-16 ***
## PC11          1.955e+00  1.115e-01  17.538 < 2e-16 ***
## PC12         -1.771e+00  1.318e-01 -13.441 < 2e-16 ***
## PC13          2.888e-01  1.005e-01   2.874 0.004067 **
## PC14         -7.852e-01  6.231e-02 -12.600 < 2e-16 ***
## PC15          1.037e-01  5.637e-02    1.840 0.065811 .
## PC16         -2.922e-01  6.405e-02   -4.562 5.12e-06 ***
## PC17         -1.132e-01  4.191e-02   -2.701 0.006926 **
## PC18          6.748e-01  5.919e-02  11.400 < 2e-16 ***
## PC19         -2.559e-01  7.060e-02   -3.624 0.000291 ***
## PC20         -6.009e-01  6.490e-02   -9.259 < 2e-16 ***
## PC21          4.572e-01  6.153e-02    7.430 1.17e-13 ***
## PC22          7.622e-01  6.518e-02  11.695 < 2e-16 ***
## PC23         -1.666e-01  8.093e-02   -2.059 0.039560 *
## PC24         -5.235e-01  5.849e-02   -8.951 < 2e-16 ***
## PC25          4.614e-01  8.875e-02    5.198 2.05e-07 ***
## PC26         -1.106e+00  7.885e-02 -14.027 < 2e-16 ***
## PC27         -4.392e-01  6.552e-02   -6.704 2.13e-11 ***
## PC28          2.446e+00  1.306e-01  18.733 < 2e-16 ***
## PC29         -4.937e-01  9.915e-02   -4.979 6.49e-07 ***
##
## PC30         -1.003e+00  6.644e-02 -15.091 < 2e-16 ***
## PC31          5.601e-01  8.309e-02    6.741 1.66e-11 ***
## PC32         -1.332e-01  9.202e-02   -1.448 0.147662
## PC33         -4.307e-01  7.061e-02   -6.099 1.10e-09 ***
## PC34          1.409e-01  1.062e-01    1.326 0.184916
## PC35          1.302e-01  8.449e-02    1.541 0.123304
## PC36         -1.503e+00  8.872e-02 -16.939 < 2e-16 ***
## PC37         -8.422e-02  1.171e-01   -0.719 0.472011
## PC38          3.328e-01  9.502e-02    3.503 0.000462 ***
## PC39          2.919e+00  6.604e-01    4.420 9.95e-06 ***
## PC40          1.594e-01  5.350e-01    0.298 0.765721
## PC41          7.367e-01  5.487e-01    1.343 0.179403
## PC42         -9.255e-01  4.010e-01   -2.308 0.021019 *
```

```

## PC43      2.626e+00  5.259e-01   4.993 6.04e-07 ***
## PC44      1.349e+00  4.204e-01   3.210 0.001333 **
## PC45     -1.687e-02  5.419e-01  -0.031 0.975160
## PC46     -1.443e+00  4.198e-01  -3.437 0.000591 ***
## PC47      3.173e+00  5.418e-01   5.857 4.85e-09 ***
## PC48      3.280e-01  6.693e-01   0.490 0.624103
## PC49     -1.439e+13  4.296e+13  -0.335 0.737609
## PC50      7.264e+13  1.220e+14   0.596 0.551481
## PC51      9.256e+14  1.018e+14   9.089 < 2e-16 ***
## PC52      1.483e+14  1.030e+14   1.440 0.149963
## PC53      1.365e+14  6.578e+13   2.075 0.038014 *
## PC54     -1.512e+13  1.079e+14  -0.140 0.888571
## PC55     -7.611e+14  1.306e+14  -5.827 5.80e-09 ***
## PC56      5.925e+13  8.700e+13   0.681 0.495845
## PC57      4.818e+14  1.463e+14   3.293 0.000993 ***
## PC58     -1.798e+14  7.635e+13  -2.355 0.018533 *
## PC59      7.406e+14  6.922e+13  10.698 < 2e-16 ***
## PC60     -3.905e+14  1.077e+14  -3.626 0.000290 ***
## PC61     -2.948e+14  1.408e+14  -2.093 0.036342 *
## PC62     -5.914e+13  8.690e+13  -0.680 0.496207
## PC63     -1.507e+14  1.226e+14  -1.230 0.218785
## PC64      5.496e+14  8.738e+13   6.290 3.30e-10 ***
## PC65     -3.992e+14  1.512e+14  -2.640 0.008314 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.205 on 10680 degrees of freedom
## Multiple R-squared:  0.9694, Adjusted R-squared:  0.9692
## F-statistic: 5207 on 65 and 10680 DF, p-value: < 2.2e-16

```

```

##Model Validation - VIF
vif(pcamodel)

```

##	PC1	PC2	PC3	PC4	PC5	PC6
##	870.138712	365.445975	99.847303	40.652044	76.874789	4.770326
##	PC7	PC8	PC9	PC10	PC11	PC12
##	6.780952	14.762699	18.705235	22.405042	80.172451	98.756169
##	PC13	PC14	PC15	PC16	PC17	PC18
##	53.541681	15.165371	11.380324	13.677167	5.002733	9.406322
##	PC19	PC20	PC21	PC22	PC23	PC24
##	12.491001	9.641977	7.997712	8.218451	12.707925	5.708848
##	PC25	PC26	PC27	PC28	PC29	PC30
##	12.707901	9.375494	5.953328	21.947758	12.098427	5.031647
##	PC31	PC32	PC33	PC34	PC35	PC36
##	6.331090	7.681895	4.326819	8.390284	5.034347	3.974124
##	PC37	PC38	PC39	PC40	PC41	PC42
##	5.497625	2.266894	9.044453	5.508550	5.168201	2.338424
##	PC43	PC44	PC45	PC46	PC47	PC48
##	3.891233	2.433603	3.762495	1.958901	1.784465	1.971541
##	PC49	PC50	PC51	PC52	PC53	PC54
##	421.195695	341.624642	363.351462	73.489325	25.267654	112.196313
##	PC55	PC56	PC57	PC58	PC59	PC60
##	35.749315	51.095692	53.641794	105.343936	5.881703	38.789700
##	PC61	PC62	PC63	PC64	PC65	
##	114.661542	18.160658	25.331537	23.232739	167.506102	

```
##Linear pca model with "stepAIC"
steppca <- step(pcamodel, direction="backward")
```

```

## Start:  AIC=4068.66
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
##      PC38 + PC39 + PC40 + PC41 + PC42 + PC43 + PC44 + PC45 + PC46 +
##      PC47 + PC48 + PC49 + PC50 + PC51 + PC52 + PC53 + PC54 + PC55 +
##      PC56 + PC57 + PC58 + PC59 + PC60 + PC61 + PC62 + PC63 + PC64 +
##      PC65
##
##      Df Sum of Sq  RSS    AIC
## - PC45  1      0.00 15500 4066.7
## - PC54  1      0.03 15500 4066.7
## - PC40  1      0.13 15501 4066.8
## - PC49  1      0.16 15501 4066.8
## - PC48  1      0.35 15501 4066.9
## - PC50  1      0.51 15501 4067.0
## - PC62  1      0.67 15501 4067.1
## - PC56  1      0.67 15501 4067.1
## - PC37  1      0.75 15501 4067.2
## - PC63  1      2.20 15503 4068.2
## - PC34  1      2.55 15503 4068.4
## - PC41  1      2.62 15503 4068.5
## <none>          15500 4068.7
## - PC52  1      3.01 15504 4068.7
## - PC32  1      3.04 15504 4068.8
## - PC35  1      3.45 15504 4069.1
## - PC6  1      4.54 15505 4069.8
## - PC15  1      4.91 15505 4070.1
## - PC23  1      6.15 15507 4070.9
## - PC53  1      6.25 15507 4071.0
## - PC61  1      6.36 15507 4071.1
## - PC42  1      7.73 15508 4072.0
## - PC58  1      8.05 15508 4072.2
## - PC65  1     10.11 15511 4073.7
## - PC7  1     10.52 15511 4074.0
## - PC17  1     10.59 15511 4074.0
## - PC13  1     11.98 15512 4075.0
## - PC44  1     14.95 15515 4077.0
## - PC57  1     15.74 15516 4077.6
## - PC2  1     16.43 15517 4078.0
## - PC46  1     17.14 15518 4078.5
## - PC38  1     17.81 15518 4079.0
## - PC19  1     19.06 15520 4079.9
## - PC60  1     19.08 15520 4079.9
## - PC39  1     28.36 15529 4086.3
## - PC16  1     30.21 15531 4087.6
## - PC29  1     35.98 15536 4091.6
## - PC43  1     36.18 15537 4091.7
## - PC25  1     39.22 15540 4093.8
## - PC55  1     49.28 15550 4100.8
## - PC47  1     49.79 15550 4101.1
## - PC33  1     53.99 15554 4104.0

```



```

## - PC64 1      57.42 15558 4106.4
## - PC8  1      58.65 15559 4107.2
## - PC27 1      65.22 15566 4111.8
## - PC31 1      65.94 15566 4112.3
## - PC21 1      80.12 15581 4122.1
## - PC24 1     116.27 15617 4147.0
## - PC51 1     119.88 15620 4149.5
## - PC20 1     124.42 15625 4152.6
## - PC5  1     164.35 15665 4180.0
## - PC59 1     166.11 15667 4181.2
## - PC18 1     188.63 15689 4196.6
## - PC22 1     198.50 15699 4203.4
## - PC14 1     230.42 15731 4225.2
## - PC12 1     262.21 15763 4246.9
## - PC26 1     285.57 15786 4262.8
## - PC10 1     302.43 15803 4274.3
## - PC9  1     323.61 15824 4288.7
## - PC30 1     330.54 15831 4293.4
## - PC36 1     416.44 15917 4351.6
## - PC11 1     446.41 15947 4371.8
## - PC28 1     509.34 16010 4414.1
## - PC4  1     538.47 16039 4433.6
## - PC1  1     551.18 16052 4442.1
## - PC3  1     556.36 16057 4445.6
##
## Step: AIC=4066.67
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
##      PC38 + PC39 + PC40 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 +
##      PC48 + PC49 + PC50 + PC51 + PC52 + PC53 + PC54 + PC55 + PC56 +
##      PC57 + PC58 + PC59 + PC60 + PC61 + PC62 + PC63 + PC64 + PC65
##
##      Df Sum of Sq  RSS    AIC
## - PC54 1      0.03 15500 4064.7
## - PC40 1      0.13 15501 4064.8
## - PC49 1      0.16 15501 4064.8
## - PC48 1      0.36 15501 4064.9
## - PC50 1      0.56 15501 4065.1
## - PC56 1      0.67 15501 4065.1
## - PC62 1      0.67 15501 4065.1
## - PC37 1      0.78 15501 4065.2
## - PC63 1      2.20 15503 4066.2
## - PC34 1      2.57 15503 4066.4
## - PC41 1      2.62 15503 4066.5
## <none>          15500 4066.7
## - PC52 1      3.04 15504 4066.8
## - PC32 1      3.13 15504 4066.8
## - PC35 1      3.91 15504 4067.4
## - PC6  1      4.60 15505 4067.9
## - PC15 1      5.03 15506 4068.2
## - PC53 1      6.25 15507 4069.0
## - PC42 1      7.80 15508 4070.1

```

```

## - PC61 1      7.86 15508 4070.1
## - PC58 1      8.10 15509 4070.3
## - PC23 1      9.38 15510 4071.2
## - PC7  1     10.93 15511 4072.2
## - PC17 1     11.49 15512 4072.6
## - PC13 1     13.03 15514 4073.7
## - PC65 1     15.32 15516 4075.3
## - PC57 1     15.92 15516 4075.7
## - PC2  1     16.64 15517 4076.2
## - PC46 1     18.78 15519 4077.7
## - PC60 1     19.35 15520 4078.1
## - PC44 1     20.31 15521 4078.7
## - PC38 1     20.91 15521 4079.2
## - PC19 1     25.03 15526 4082.0
## - PC43 1     36.19 15537 4089.7
## - PC29 1     37.92 15538 4090.9
## - PC16 1     38.33 15539 4091.2
## - PC25 1     39.58 15540 4092.1
## - PC39 1     43.20 15544 4094.6
## - PC55 1     51.33 15552 4100.2
## - PC47 1     53.78 15554 4101.9
## - PC33 1     54.10 15555 4102.1
## - PC64 1     57.74 15558 4104.6
## - PC8  1     64.92 15565 4109.6
## - PC27 1     66.77 15567 4110.9
## - PC31 1     67.52 15568 4111.4
## - PC21 1     83.86 15584 4122.6
## - PC24 1    116.66 15617 4145.2
## - PC51 1    120.15 15621 4147.6
## - PC20 1    131.44 15632 4155.4
## - PC59 1    166.50 15667 4179.5
## - PC5  1    167.65 15668 4180.3
## - PC18 1    195.88 15696 4199.6
## - PC22 1    198.52 15699 4201.4
## - PC14 1    239.88 15740 4229.7
## - PC12 1    268.28 15769 4249.1
## - PC26 1    289.32 15790 4263.4
## - PC30 1    330.64 15831 4291.5
## - PC9  1    339.75 15840 4297.7
## - PC10 1    367.29 15868 4316.3
## - PC36 1    417.61 15918 4350.4
## - PC11 1    449.71 15950 4372.0
## - PC28 1    510.91 16011 4413.1
## - PC4  1    556.14 16057 4443.5
## - PC1  1    558.63 16059 4445.1
## - PC3  1    633.93 16134 4495.4
##

```

```
## Step: AIC=4064.69
```

```

## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
##      PC38 + PC39 + PC40 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 +
##      PC48 + PC49 + PC50 + PC51 + PC52 + PC53 + PC55 + PC56 + PC57 +

```

PC58 + PC59 + PC60 + PC61 + PC62 + PC63 + PC64 + PC65

##

##		Df	Sum of Sq	RSS	AIC
## - PC49	1	0.17	15501	4062.8	
## - PC40	1	0.20	15501	4062.8	
## - PC48	1	0.34	15501	4062.9	
## - PC50	1	0.55	15501	4063.1	
## - PC62	1	0.67	15501	4063.1	
## - PC56	1	0.68	15501	4063.2	
## - PC37	1	0.89	15501	4063.3	
## - PC63	1	2.18	15503	4064.2	
## <none>			15500	4064.7	
## - PC41	1	2.99	15504	4064.8	
## - PC52	1	3.01	15504	4064.8	
## - PC32	1	3.23	15504	4064.9	
## - PC34	1	3.23	15504	4064.9	
## - PC35	1	4.05	15505	4065.5	
## - PC6	1	5.00	15506	4066.2	
## - PC15	1	5.42	15506	4066.4	
## - PC53	1	6.24	15507	4067.0	
## - PC42	1	7.77	15508	4068.1	
## - PC61	1	7.94	15508	4068.2	
## - PC58	1	8.14	15509	4068.3	
## - PC23	1	10.65	15511	4070.1	
## - PC7	1	11.07	15512	4070.4	
## - PC17	1	11.48	15512	4070.6	
## - PC13	1	13.06	15514	4071.7	
## - PC65	1	15.31	15516	4073.3	
## - PC57	1	15.90	15516	4073.7	
## - PC2	1	16.75	15517	4074.3	
## - PC46	1	19.14	15520	4075.9	
## - PC60	1	19.42	15520	4076.1	
## - PC44	1	20.32	15521	4076.8	
## - PC38	1	22.18	15523	4078.0	
## - PC19	1	26.44	15527	4081.0	
## - PC43	1	38.90	15539	4089.6	
## - PC16	1	38.90	15539	4089.6	
## - PC29	1	41.31	15542	4091.3	
## - PC25	1	44.26	15545	4093.3	
## - PC39	1	44.72	15545	4093.6	
## - PC55	1	51.35	15552	4098.2	
## - PC47	1	53.76	15554	4099.9	
## - PC33	1	54.15	15555	4100.2	
## - PC64	1	57.72	15558	4102.6	
## - PC31	1	67.56	15568	4109.4	
## - PC27	1	70.64	15571	4111.5	
## - PC8	1	74.89	15575	4114.5	
## - PC21	1	83.97	15584	4120.7	
## - PC24	1	118.88	15619	4144.8	
## - PC51	1	120.13	15621	4145.6	
## - PC20	1	131.57	15632	4153.5	
## - PC59	1	166.65	15667	4177.6	
## - PC5	1	170.44	15671	4180.2	
## - PC18	1	199.28	15700	4200.0	

```

## - PC22 1 225.53 15726 4217.9
## - PC14 1 255.22 15756 4238.2
## - PC12 1 270.61 15771 4248.7
## - PC26 1 289.39 15790 4261.5
## - PC30 1 330.84 15831 4289.6
## - PC10 1 368.76 15869 4315.3
## - PC9 1 384.16 15885 4325.8
## - PC36 1 428.91 15929 4356.0
## - PC11 1 464.55 15965 4380.0
## - PC28 1 533.61 16034 4426.4
## - PC4 1 557.34 16058 4442.3
## - PC1 1 616.30 16117 4481.7
## - PC3 1 633.92 16134 4493.4
##
## Step: AIC=4062.8
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
## PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
## PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
## PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
## PC38 + PC39 + PC40 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 +
## PC48 + PC50 + PC51 + PC52 + PC53 + PC55 + PC56 + PC57 + PC58 +
## PC59 + PC60 + PC61 + PC62 + PC63 + PC64 + PC65
##
## Df Sum of Sq RSS AIC
## - PC40 1 0.16 15501 4060.9
## - PC48 1 0.27 15501 4061.0
## - PC50 1 0.55 15501 4061.2
## - PC62 1 0.66 15501 4061.3
## - PC56 1 0.67 15501 4061.3
## - PC37 1 0.81 15502 4061.4
## - PC63 1 2.18 15503 4062.3
## <none> 15501 4062.8
## - PC41 1 2.89 15504 4062.8
## - PC52 1 3.07 15504 4062.9
## - PC34 1 3.08 15504 4062.9
## - PC32 1 3.52 15504 4063.2
## - PC35 1 4.02 15505 4063.6
## - PC15 1 5.62 15506 4064.7
## - PC53 1 6.29 15507 4065.2
## - PC61 1 7.85 15508 4066.2
## - PC58 1 8.18 15509 4066.5
## - PC42 1 8.62 15509 4066.8
## - PC6 1 9.20 15510 4067.2
## - PC23 1 10.50 15511 4068.1
## - PC17 1 11.35 15512 4068.7
## - PC7 1 13.62 15514 4070.2
## - PC13 1 13.70 15514 4070.3
## - PC65 1 15.27 15516 4071.4
## - PC57 1 16.02 15517 4071.9
## - PC2 1 16.81 15518 4072.4
## - PC46 1 19.07 15520 4074.0
## - PC60 1 19.61 15520 4074.4
## - PC44 1 20.60 15521 4075.1
## - PC38 1 22.73 15523 4076.5

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## - PC19 1      26.36 15527 4079.1
## - PC16 1      38.76 15539 4087.6
## - PC43 1      42.26 15543 4090.1
## - PC25 1      45.10 15546 4092.0
## - PC39 1      45.26 15546 4092.1
## - PC55 1      51.21 15552 4096.2
## - PC29 1      52.46 15553 4097.1
## - PC47 1      53.71 15554 4098.0
## - PC64 1      57.77 15558 4100.8
## - PC33 1      58.94 15560 4101.6
## - PC31 1      67.60 15568 4107.6
## - PC27 1      71.65 15572 4110.4
## - PC8   1      75.85 15576 4113.3
## - PC21 1      84.87 15586 4119.5
## - PC51 1     120.19 15621 4143.8
## - PC24 1     126.10 15627 4147.9
## - PC59 1     166.87 15668 4175.9
## - PC20 1     190.37 15691 4192.0
## - PC18 1     201.18 15702 4199.4
## - PC5   1     243.36 15744 4228.2
## - PC14 1     268.96 15770 4245.7
## - PC26 1     292.50 15793 4261.7
## - PC22 1     294.08 15795 4262.8
## - PC12 1     423.79 15924 4350.7
## - PC10 1     445.64 15946 4365.4
## - PC30 1     449.00 15950 4367.7
## - PC4   1     590.50 16091 4462.6
## - PC9   1     601.22 16102 4469.7
## - PC36 1     841.91 16343 4629.2
## - PC1   1     879.93 16381 4654.1
## - PC11 1     941.92 16443 4694.7
## - PC3   1    1278.55 16779 4912.5
## - PC28 1    2764.77 18266 5824.5
##
## Step: AIC=4060.91
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
##      PC38 + PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC48 +
##      PC50 + PC51 + PC52 + PC53 + PC55 + PC56 + PC57 + PC58 + PC59 +
##      PC60 + PC61 + PC62 + PC63 + PC64 + PC65
##
##      Df Sum of Sq  RSS    AIC
## - PC48 1      0.28 15501 4059.1
## - PC50 1      0.54 15501 4059.3
## - PC62 1      0.65 15502 4059.4
## - PC56 1      0.67 15502 4059.4
## - PC37 1      0.76 15502 4059.4
## - PC63 1      2.06 15503 4060.3
## <none>          15501 4060.9
## - PC34 1      3.23 15504 4061.1
## - PC32 1      3.38 15504 4061.3
## - PC52 1      4.30 15505 4061.9

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## - PC35 1      4.67 15506 4062.1
## - PC53 1      6.18 15507 4063.2
## - PC15 1      6.19 15507 4063.2
## - PC41 1      6.39 15507 4063.3
## - PC61 1      7.80 15509 4064.3
## - PC58 1      8.06 15509 4064.5
## - PC42 1      8.51 15509 4064.8
## - PC6  1     10.13 15511 4065.9
## - PC23 1     10.45 15511 4066.2
## - PC17 1     11.39 15512 4066.8
## - PC13 1     13.60 15514 4068.3
## - PC7  1     13.62 15514 4068.3
## - PC65 1     15.44 15516 4069.6
## - PC57 1     16.03 15517 4070.0
## - PC2  1     17.75 15519 4071.2
## - PC60 1     19.62 15520 4072.5
## - PC46 1     20.46 15521 4073.1
## - PC44 1     21.08 15522 4073.5
## - PC38 1     22.67 15524 4074.6
## - PC19 1     28.06 15529 4078.3
## - PC16 1     44.45 15545 4089.7
## - PC25 1     45.01 15546 4090.1
## - PC43 1     46.27 15547 4090.9
## - PC39 1     47.56 15548 4091.8
## - PC55 1     52.13 15553 4095.0
## - PC47 1     55.75 15557 4097.5
## - PC64 1     57.94 15559 4099.0
## - PC33 1     61.42 15562 4101.4
## - PC29 1     67.12 15568 4105.3
## - PC27 1     74.91 15576 4110.7
## - PC8  1     83.73 15585 4116.8
## - PC21 1     96.72 15598 4125.8
## - PC31 1    106.18 15607 4132.3
## - PC24 1    126.62 15628 4146.3
## - PC51 1    135.59 15636 4152.5
## - PC59 1    166.83 15668 4173.9
## - PC18 1    222.91 15724 4212.3
## - PC20 1    229.19 15730 4216.6
## - PC5  1    244.38 15745 4227.0
## - PC14 1    282.71 15784 4253.1
## - PC26 1    316.88 15818 4276.4
## - PC22 1    364.83 15866 4308.9
## - PC10 1    455.17 15956 4369.9
## - PC12 1    481.11 15982 4387.4
## - PC30 1    509.45 16010 4406.4
## - PC9  1    680.14 16181 4520.4
## - PC4  1    770.39 16271 4580.1
## - PC36 1    852.09 16353 4634.0
## - PC1  1    911.38 16412 4672.8
## - PC3  1   1511.44 17012 5058.7
## - PC11 1   1732.61 17233 5197.5
## - PC28 1   2951.25 18452 5931.8
##
## Step:  AIC=4059.1
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## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
##      PC38 + PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC50 +
##      PC51 + PC52 + PC53 + PC55 + PC56 + PC57 + PC58 + PC59 + PC60 +
##      PC61 + PC62 + PC63 + PC64 + PC65
##
##      Df Sum of Sq  RSS   AIC
## - PC62  1      0.56 15502 4057.5
## - PC56  1      0.57 15502 4057.5
## - PC37  1      0.72 15502 4057.6
## - PC50  1      0.87 15502 4057.7
## <none>                15501 4059.1
## - PC34  1      3.06 15504 4059.2
## - PC32  1      3.12 15504 4059.3
## - PC63  1      3.37 15504 4059.4
## - PC52  1      4.12 15505 4060.0
## - PC35  1      4.40 15506 4060.2
## - PC15  1      6.24 15507 4061.4
## - PC53  1      6.30 15507 4061.5
## - PC41  1      6.67 15508 4061.7
## - PC61  1      7.62 15509 4062.4
## - PC58  1      7.83 15509 4062.5
## - PC42  1      8.23 15509 4062.8
## - PC6   1     10.27 15511 4064.2
## - PC23  1     10.39 15512 4064.3
## - PC17  1     11.13 15512 4064.8
## - PC13  1     15.25 15516 4067.7
## - PC7   1     15.66 15517 4068.0
## - PC57  1     16.12 15517 4068.3
## - PC2   1     18.61 15520 4070.0
## - PC65  1     19.15 15520 4070.4
## - PC60  1     20.13 15521 4071.0
## - PC46  1     20.19 15521 4071.1
## - PC44  1     22.40 15524 4072.6
## - PC38  1     22.50 15524 4072.7
## - PC19  1     28.25 15529 4076.7
## - PC16  1     44.62 15546 4088.0
## - PC25  1     46.34 15548 4089.2
## - PC43  1     46.52 15548 4089.3
## - PC39  1     47.54 15549 4090.0
## - PC55  1     52.07 15553 4093.1
## - PC47  1     56.56 15558 4096.2
## - PC64  1     58.23 15559 4097.4
## - PC33  1     61.16 15562 4099.4
## - PC29  1     69.85 15571 4105.4
## - PC27  1     76.26 15577 4109.8
## - PC8   1     85.55 15587 4116.2
## - PC31  1    107.65 15609 4131.5
## - PC21  1    108.03 15609 4131.7
## - PC24  1    131.88 15633 4148.1
## - PC51  1    135.82 15637 4150.9
## - PC59  1    166.58 15668 4172.0

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## - PC18 1 222.93 15724 4210.5
## - PC20 1 230.08 15731 4215.4
## - PC5 1 274.16 15775 4245.5
## - PC14 1 300.58 15802 4263.5
## - PC26 1 316.92 15818 4274.6
## - PC22 1 364.62 15866 4306.9
## - PC10 1 485.93 15987 4388.8
## - PC12 1 497.70 15999 4396.7
## - PC30 1 560.31 16061 4438.7
## - PC9 1 679.87 16181 4518.4
## - PC4 1 772.79 16274 4579.9
## - PC36 1 856.64 16358 4635.1
## - PC1 1 967.07 16468 4707.4
## - PC3 1 1528.51 17030 5067.7
## - PC11 1 1732.99 17234 5195.9
## - PC28 1 2967.21 18468 5939.2
##
## Step: AIC=4057.49
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
## PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
## PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
## PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC37 +
## PC38 + PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC50 +
## PC51 + PC52 + PC53 + PC55 + PC56 + PC57 + PC58 + PC59 + PC60 +
## PC61 + PC63 + PC64 + PC65
##
## Df Sum of Sq RSS AIC
## - PC37 1 0.62 15502 4055.9
## - PC56 1 0.62 15502 4055.9
## - PC50 1 0.86 15502 4056.1
## <none> 15502 4057.5
## - PC63 1 3.18 15505 4057.7
## - PC32 1 3.57 15505 4058.0
## - PC34 1 3.89 15506 4058.2
## - PC35 1 4.14 15506 4058.4
## - PC52 1 4.19 15506 4058.4
## - PC53 1 6.34 15508 4059.9
## - PC41 1 7.38 15509 4060.6
## - PC61 1 7.43 15509 4060.6
## - PC58 1 7.77 15509 4060.9
## - PC15 1 8.21 15510 4061.2
## - PC42 1 9.14 15511 4061.8
## - PC6 1 10.00 15512 4062.4
## - PC23 1 10.18 15512 4062.5
## - PC17 1 12.02 15514 4063.8
## - PC7 1 15.42 15517 4066.2
## - PC13 1 15.78 15518 4066.4
## - PC57 1 16.04 15518 4066.6
## - PC65 1 18.62 15520 4068.4
## - PC2 1 19.64 15521 4069.1
## - PC60 1 20.15 15522 4069.5
## - PC46 1 20.27 15522 4069.5
## - PC44 1 21.90 15524 4070.7
## - PC38 1 22.97 15525 4071.4

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## - PC19 1      28.24 15530 4075.1
## - PC25 1      46.21 15548 4087.5
## - PC43 1      48.23 15550 4088.9
## - PC16 1      49.67 15551 4089.9
## - PC39 1      49.70 15551 4089.9
## - PC55 1      52.66 15554 4091.9
## - PC47 1      56.08 15558 4094.3
## - PC64 1      59.08 15561 4096.4
## - PC33 1      60.63 15562 4097.4
## - PC29 1      75.33 15577 4107.6
## - PC27 1      75.70 15577 4107.8
## - PC8   1      90.67 15592 4118.2
## - PC21 1     107.52 15609 4129.8
## - PC31 1     108.73 15610 4130.6
## - PC51 1     135.53 15637 4149.0
## - PC24 1     136.87 15638 4150.0
## - PC59 1     166.03 15668 4170.0
## - PC18 1     223.52 15725 4209.3
## - PC20 1     229.53 15731 4213.4
## - PC5   1     274.24 15776 4243.9
## - PC14 1     313.71 15815 4270.8
## - PC26 1     321.12 15823 4275.8
## - PC22 1     364.21 15866 4305.0
## - PC10 1     491.57 15993 4391.0
## - PC12 1     498.74 16000 4395.8
## - PC30 1     559.85 16062 4436.7
## - PC9   1     680.93 16183 4517.4
## - PC4   1     773.56 16275 4578.8
## - PC36 1     873.89 16376 4644.8
## - PC1   1     971.54 16473 4708.7
## - PC3   1    1569.72 17071 5092.0
## - PC11 1    1753.05 17255 5206.8
## - PC28 1    2991.95 18494 5951.9
##
## Step: AIC=4055.92
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC38 +
##      PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC50 + PC51 +
##      PC52 + PC53 + PC55 + PC56 + PC57 + PC58 + PC59 + PC60 + PC61 +
##      PC63 + PC64 + PC65
##
##      Df Sum of Sq  RSS    AIC
## - PC56 1        0.52 15503 4054.3
## - PC50 1        1.92 15504 4055.3
## <none>          15502 4055.9
## - PC32 1        3.11 15505 4056.1
## - PC34 1        3.34 15506 4056.2
## - PC63 1        3.51 15506 4056.4
## - PC35 1        3.58 15506 4056.4
## - PC52 1        3.82 15506 4056.6
## - PC53 1        6.38 15509 4058.3
## - PC15 1        7.91 15510 4059.4

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## - PC58 1      8.25 15510 4059.6
## - PC41 1      8.37 15511 4059.7
## - PC42 1      9.07 15511 4060.2
## - PC23 1      9.58 15512 4060.6
## - PC6  1      9.64 15512 4060.6
## - PC61 1     11.35 15514 4061.8
## - PC17 1     13.80 15516 4063.5
## - PC7  1     15.40 15518 4064.6
## - PC57 1     17.33 15520 4065.9
## - PC65 1     19.52 15522 4067.4
## - PC13 1     20.21 15522 4067.9
## - PC46 1     21.40 15524 4068.7
## - PC44 1     21.87 15524 4069.1
## - PC38 1     23.09 15525 4069.9
## - PC60 1     24.81 15527 4071.1
## - PC19 1     27.87 15530 4073.2
## - PC2  1     31.65 15534 4075.8
## - PC25 1     45.61 15548 4085.5
## - PC55 1     52.43 15555 4090.2
## - PC47 1     55.61 15558 4092.4
## - PC39 1     58.12 15560 4094.1
## - PC43 1     60.26 15563 4095.6
## - PC64 1     62.00 15564 4096.8
## - PC29 1     74.74 15577 4105.6
## - PC27 1     75.08 15577 4105.8
## - PC33 1     77.33 15580 4107.4
## - PC16 1     97.46 15600 4121.3
## - PC8  1    107.25 15610 4128.0
## - PC21 1    107.70 15610 4128.3
## - PC31 1    108.34 15611 4128.8
## - PC51 1    135.53 15638 4147.5
## - PC24 1    138.41 15641 4149.4
## - PC59 1    165.48 15668 4168.0
## - PC20 1    288.52 15791 4252.1
## - PC5  1    296.09 15798 4257.2
## - PC26 1    334.21 15836 4283.1
## - PC18 1    335.13 15837 4283.8
## - PC14 1    379.53 15882 4313.8
## - PC22 1    410.78 15913 4335.0
## - PC10 1    501.60 16004 4396.1
## - PC12 1    508.65 16011 4400.9
## - PC30 1    559.29 16062 4434.8
## - PC4  1    774.71 16277 4578.0
## - PC9  1    806.60 16309 4599.0
## - PC36 1    873.52 16376 4643.0
## - PC1  1   1041.82 16544 4752.9
## - PC11 1   1761.85 17264 5210.7
## - PC3  1   1771.19 17274 5216.5
## - PC28 1   3156.16 18659 6045.3
##

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## Step: AIC=4054.28
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## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +

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##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC38 +
##      PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC50 + PC51 +
##      PC52 + PC53 + PC55 + PC57 + PC58 + PC59 + PC60 + PC61 + PC63 +
##      PC64 + PC65
##
##      Df Sum of Sq  RSS    AIC
## - PC50  1      1.75 15505 4053.5
## - PC32  1      2.69 15506 4054.1
## <none>                15503 4054.3
## - PC35  1      3.17 15506 4054.5
## - PC34  1      3.18 15506 4054.5
## - PC63  1      3.27 15506 4054.5
## - PC52  1      3.87 15507 4055.0
## - PC53  1      6.38 15509 4056.7
## - PC58  1      8.35 15511 4058.1
## - PC15  1      8.39 15511 4058.1
## - PC42  1      9.19 15512 4058.6
## - PC41  1      9.20 15512 4058.7
## - PC23  1      9.93 15513 4059.2
## - PC61  1     11.13 15514 4060.0
## - PC6   1     12.51 15515 4061.0
## - PC17  1     13.54 15516 4061.7
## - PC7   1     15.41 15518 4063.0
## - PC57  1     17.61 15520 4064.5
## - PC65  1     19.34 15522 4065.7
## - PC13  1     19.70 15522 4065.9
## - PC44  1     21.70 15524 4067.3
## - PC46  1     22.23 15525 4067.7
## - PC38  1     22.60 15525 4067.9
## - PC60  1     24.66 15528 4069.4
## - PC2   1     32.86 15536 4075.0
## - PC19  1     34.16 15537 4075.9
## - PC25  1     47.39 15550 4085.1
## - PC55  1     53.02 15556 4089.0
## - PC47  1     55.77 15559 4090.9
## - PC43  1     59.89 15563 4093.7
## - PC39  1     61.55 15564 4094.9
## - PC64  1     61.97 15565 4095.1
## - PC27  1     74.61 15577 4103.9
## - PC29  1     75.87 15579 4104.7
## - PC33  1     81.28 15584 4108.5
## - PC16  1    102.88 15606 4123.4
## - PC8   1    106.91 15610 4126.1
## - PC21  1    107.39 15610 4126.5
## - PC31  1    112.48 15615 4130.0
## - PC51  1    136.73 15640 4146.6
## - PC24  1    138.03 15641 4147.5
## - PC59  1    165.35 15668 4166.3
## - PC20  1    290.64 15794 4251.9
## - PC5   1    297.35 15800 4256.4
## - PC26  1    343.20 15846 4287.6
## - PC18  1    377.18 15880 4310.6
## - PC14  1    413.29 15916 4335.0
## - PC22  1    419.74 15923 4339.4

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## - PC10 1      505.28 16008 4396.9
## - PC12 1      510.96 16014 4400.8
## - PC30 1      606.70 16110 4464.8
## - PC4   1      779.92 16283 4579.7
## - PC9   1      877.17 16380 4643.7
## - PC36 1      912.29 16415 4666.7
## - PC1   1     1095.96 16599 4786.3
## - PC11 1     1862.92 17366 5271.7
## - PC3   1     2036.36 17539 5378.5
## - PC28 1     3159.10 18662 6045.3
##
## Step: AIC=4053.49
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC34 + PC35 + PC36 + PC38 +
##      PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC51 + PC52 +
##      PC53 + PC55 + PC57 + PC58 + PC59 + PC60 + PC61 + PC63 + PC64 +
##      PC65
##
##      Df Sum of Sq  RSS    AIC
## - PC34 1         2.5 15507 4053.2
## <none>          15505 4053.5
## - PC35 1         3.3 15508 4053.8
## - PC52 1         3.7 15508 4054.0
## - PC63 1         4.8 15509 4054.8
## - PC32 1         5.3 15510 4055.2
## - PC53 1         6.2 15511 4055.8
## - PC58 1         8.5 15513 4057.4
## - PC15 1         9.0 15514 4057.7
## - PC41 1         9.2 15514 4057.9
## - PC23 1         9.2 15514 4057.9
## - PC42 1         9.5 15514 4058.1
## - PC61 1        10.7 15515 4058.9
## - PC17 1        11.9 15516 4059.7
## - PC57 1        16.1 15521 4062.6
## - PC6   1        17.2 15522 4063.4
## - PC7   1        17.3 15522 4063.5
## - PC65 1        17.7 15522 4063.8
## - PC13 1        18.6 15523 4064.4
## - PC44 1        23.6 15528 4067.8
## - PC46 1        25.5 15530 4069.2
## - PC38 1        25.9 15530 4069.4
## - PC60 1        26.9 15532 4070.1
## - PC2   1        31.5 15536 4073.3
## - PC19 1        39.4 15544 4078.7
## - PC25 1        46.7 15551 4083.8
## - PC55 1        52.5 15557 4087.9
## - PC47 1        54.0 15559 4088.9
## - PC64 1        62.6 15567 4094.8
## - PC27 1        77.5 15582 4105.0
## - PC39 1        81.8 15586 4108.0
## - PC33 1        84.4 15589 4109.8
## - PC43 1        85.7 15590 4110.7

```

```
## - PC29 1      94.5 15599 4116.8
## - PC16 1     103.3 15608 4122.8
## - PC31 1     110.8 15615 4128.0
## - PC8   1     122.0 15626 4135.7
## - PC21 1     133.7 15638 4143.8
## - PC51 1     135.0 15640 4144.7
## - PC24 1     136.6 15641 4145.8
## - PC59 1     166.5 15671 4166.3
## - PC20 1     295.9 15800 4254.6
## - PC26 1     376.7 15881 4309.4
## - PC14 1     442.8 15947 4354.1
## - PC18 1     458.9 15964 4364.9
## - PC10 1     508.0 16012 4397.9
## - PC12 1     509.6 16014 4399.0
## - PC5   1     565.3 16070 4436.3
## - PC22 1     572.4 16077 4441.1
## - PC30 1     658.5 16163 4498.4
## - PC9   1     886.6 16391 4649.1
## - PC36 1     947.6 16452 4689.0
## - PC4   1    1085.8 16590 4778.9
## - PC11 1    1898.2 17403 5292.6
## - PC3   1    2098.1 17603 5415.3
## - PC1   1    2325.6 17830 5553.3
## - PC28 1    3623.7 19128 6308.5
```

```
##
```

```
## Step: AIC=4053.23
```

```
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC35 + PC36 + PC38 + PC39 +
##      PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC51 + PC52 + PC53 +
##      PC55 + PC57 + PC58 + PC59 + PC60 + PC61 + PC63 + PC64 + PC65
```

```
##
```

```
##      Df Sum of Sq  RSS    AIC
## - PC52 1        1.7 15509 4052.4
## - PC35 1        2.8 15510 4053.2
## <none>                15507 4053.2
## - PC32 1        3.7 15511 4053.8
## - PC15 1        7.0 15514 4056.1
## - PC42 1        7.4 15514 4056.3
## - PC53 1        8.7 15516 4057.3
## - PC23 1        8.9 15516 4057.4
## - PC17 1        9.5 15516 4057.8
## - PC61 1       10.3 15517 4058.3
## - PC63 1       10.4 15518 4058.4
## - PC58 1       12.0 15519 4059.5
## - PC57 1       14.9 15522 4061.5
## - PC65 1       15.9 15523 4062.2
## - PC6   1       16.3 15523 4062.5
## - PC41 1       17.2 15524 4063.2
## - PC13 1       18.4 15525 4063.9
## - PC44 1       23.2 15530 4067.3
## - PC60 1       24.4 15532 4068.2
## - PC7   1       25.4 15532 4068.8
```

```
## - PC46 1      25.7 15533 4069.0
## - PC38 1      26.1 15533 4069.3
## - PC2  1      29.8 15537 4071.9
## - PC19 1      37.1 15544 4076.9
## - PC25 1      46.2 15553 4083.2
## - PC55 1      50.6 15558 4086.2
## - PC47 1      56.5 15564 4090.3
## - PC64 1      60.1 15567 4092.8
## - PC27 1      76.8 15584 4104.3
## - PC39 1      80.7 15588 4107.0
## - PC43 1      83.2 15590 4108.8
## - PC33 1      85.6 15593 4110.4
## - PC29 1      94.9 15602 4116.8
## - PC16 1     105.4 15612 4124.1
## - PC31 1     109.6 15617 4126.9
## - PC24 1     135.1 15642 4144.5
## - PC21 1     142.0 15649 4149.2
## - PC8  1     143.9 15651 4150.5
## - PC51 1     149.4 15656 4154.2
## - PC59 1     175.0 15682 4171.8
## - PC20 1     296.1 15803 4254.5
## - PC26 1     374.2 15881 4307.5
## - PC18 1     461.5 15969 4366.4
## - PC12 1     511.1 16018 4399.7
## - PC10 1     521.2 16028 4406.5
## - PC22 1     571.6 16079 4440.2
## - PC14 1     580.5 16088 4446.2
## - PC5  1     587.2 16094 4450.6
## - PC30 1     700.6 16208 4526.0
## - PC36 1     947.2 16454 4688.4
## - PC9  1     951.5 16459 4691.2
## - PC4  1    1090.8 16598 4781.7
## - PC3  1    2277.8 17785 5524.0
## - PC1  1    2504.6 18012 5660.1
## - PC11 1    2579.0 18086 5704.4
## - PC28 1    4452.1 19959 6763.4
```

```
##
```

```
## Step: AIC=4052.37
```

```
## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC35 + PC36 + PC38 + PC39 +
##      PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC51 + PC53 + PC55 +
##      PC57 + PC58 + PC59 + PC60 + PC61 + PC63 + PC64 + PC65
```

```
##
```

```
##      Df Sum of Sq  RSS    AIC
## - PC35 1         2.5 15511 4052.1
## - PC32 1         2.7 15511 4052.2
## <none>          15509 4052.4
## - PC15 1         5.9 15515 4054.5
## - PC23 1         7.3 15516 4055.4
## - PC17 1         7.9 15517 4055.8
## - PC63 1         9.2 15518 4056.8
## - PC42 1         9.3 15518 4056.8
```

```

## - PC53 1      10.2 15519 4057.4
## - PC61 1      10.7 15520 4057.8
## - PC58 1      12.5 15521 4059.0
## - PC65 1      15.3 15524 4061.0
## - PC6  1      17.0 15526 4062.1
## - PC46 1      24.5 15533 4067.3
## - PC41 1      24.9 15534 4067.6
## - PC44 1      25.2 15534 4067.8
## - PC38 1      25.4 15534 4068.0
## - PC57 1      25.5 15534 4068.0
## - PC7   1      25.7 15534 4068.2
## - PC60 1      25.8 15534 4068.2
## - PC19 1      35.7 15544 4075.1
## - PC2   1      39.4 15548 4077.7
## - PC13 1      45.7 15554 4082.0
## - PC25 1      51.5 15560 4086.0
## - PC55 1      54.5 15563 4088.1
## - PC47 1      55.1 15564 4088.5
## - PC64 1      64.2 15573 4094.7
## - PC39 1      81.9 15591 4107.0
## - PC43 1      83.8 15592 4108.3
## - PC27 1      84.7 15593 4108.9
## - PC33 1      88.4 15597 4111.4
## - PC29 1      97.5 15606 4117.7
## - PC16 1     107.3 15616 4124.5
## - PC31 1     120.1 15629 4133.3
## - PC24 1     140.9 15650 4147.6
## - PC8   1     142.7 15651 4148.8
## - PC21 1     142.7 15651 4148.8
## - PC59 1     174.1 15683 4170.4
## - PC51 1     176.4 15685 4171.9
## - PC20 1     332.2 15841 4278.1
## - PC18 1     513.2 16022 4400.2
## - PC10 1     545.9 16055 4422.1
## - PC22 1     575.3 16084 4441.8
## - PC14 1     595.6 16104 4455.4
## - PC12 1     681.5 16190 4512.5
## - PC26 1     748.2 16257 4556.7
## - PC30 1     749.8 16259 4557.8
## - PC5   1     826.9 16336 4608.6
## - PC36 1     951.9 16461 4690.5
## - PC9   1    1028.2 16537 4740.2
## - PC4   1    1301.6 16810 4916.4
## - PC3   1    2282.4 17791 5525.8
## - PC1   1    2568.5 18077 5697.2
## - PC11 1    2653.4 18162 5747.6
## - PC28 1    4451.5 19960 6762.0
##

```

```
## Step: AIC=4052.07
```

```

## V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 + PC9 + PC10 +
##      PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 + PC18 + PC19 +
##      PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 + PC27 + PC28 +
##      PC29 + PC30 + PC31 + PC32 + PC33 + PC36 + PC38 + PC39 + PC41 +
##      PC42 + PC43 + PC44 + PC46 + PC47 + PC51 + PC53 + PC55 + PC57 +

```

PC58 + PC59 + PC60 + PC61 + PC63 + PC64 + PC65

##

##		Df	Sum of Sq	RSS	AIC
##	<none>			15511	4052.1
##	- PC32	1	3.8	15515	4052.7
##	- PC15	1	4.2	15515	4053.0
##	- PC23	1	6.8	15518	4054.8
##	- PC17	1	7.4	15519	4055.2
##	- PC42	1	7.7	15519	4055.4
##	- PC61	1	8.6	15520	4056.0
##	- PC58	1	11.2	15522	4057.8
##	- PC63	1	11.7	15523	4058.2
##	- PC53	1	11.8	15523	4058.3
##	- PC65	1	13.0	15524	4059.1
##	- PC6	1	14.9	15526	4060.4
##	- PC46	1	22.6	15534	4065.7
##	- PC38	1	23.1	15534	4066.1
##	- PC44	1	23.3	15534	4066.2
##	- PC41	1	23.4	15534	4066.3
##	- PC7	1	28.5	15540	4069.8
##	- PC57	1	33.8	15545	4073.5
##	- PC60	1	35.6	15547	4074.7
##	- PC2	1	40.4	15552	4078.0
##	- PC25	1	50.4	15562	4084.9
##	- PC47	1	55.2	15566	4088.3
##	- PC19	1	57.8	15569	4090.0
##	- PC55	1	58.0	15569	4090.2
##	- PC64	1	63.2	15574	4093.8
##	- PC13	1	65.4	15576	4095.3
##	- PC39	1	80.1	15591	4105.4
##	- PC27	1	83.7	15595	4107.9
##	- PC43	1	84.1	15595	4108.2
##	- PC33	1	88.2	15599	4111.0
##	- PC29	1	102.4	15614	4120.8
##	- PC16	1	109.6	15621	4125.7
##	- PC31	1	125.8	15637	4136.8
##	- PC24	1	139.1	15650	4146.0
##	- PC21	1	144.1	15655	4149.5
##	- PC8	1	156.7	15668	4158.1
##	- PC51	1	175.2	15686	4170.8
##	- PC59	1	184.9	15696	4177.4
##	- PC20	1	329.8	15841	4276.2
##	- PC18	1	589.3	16100	4450.8
##	- PC10	1	619.1	16130	4470.7
##	- PC14	1	621.1	16132	4472.0
##	- PC22	1	671.9	16183	4505.8
##	- PC12	1	686.3	16197	4515.3
##	- PC26	1	750.0	16261	4557.5
##	- PC30	1	769.2	16280	4570.2
##	- PC5	1	848.9	16360	4622.6
##	- PC36	1	967.8	16479	4700.5
##	- PC9	1	1349.0	16860	4946.2
##	- PC4	1	2254.4	17766	5508.3
##	- PC3	1	2295.2	17806	5533.0


```
## - PC11 1 2695.3 18206 5771.7
## - PC1 1 2981.7 18493 5939.5
## - PC28 1 4584.1 20095 6832.4
```

```
steppca$anova # display results
```

##	Step	Df	Deviance	Resid. Df	Resid. Dev	AIC
## 1		NA	NA	10680	15500.48	4068.664
## 2	- PC45	1	0.001407191	10681	15500.49	4066.665
## 3	- PC54	1	0.029221995	10682	15500.51	4064.686
## 4	- PC49	1	0.165777723	10683	15500.68	4062.800
## 5	- PC40	1	0.156449225	10684	15500.84	4060.909
## 6	- PC48	1	0.280084376	10685	15501.12	4059.103
## 7	- PC62	1	0.562056628	10686	15501.68	4057.493
## 8	- PC37	1	0.618585739	10687	15502.30	4055.922
## 9	- PC56	1	0.520676743	10688	15502.82	4054.282
## 10	- PC50	1	1.745203861	10689	15504.56	4053.492
## 11	- PC34	1	2.503464551	10690	15507.07	4053.227
## 12	- PC52	1	1.655940605	10691	15508.72	4052.375
## 13	- PC35	1	2.450473585	10692	15511.17	4052.072

```
summary(steppca)
```

```
##
## Call:
## lm(formula = V1 ~ PC1 + PC2 + PC3 + PC4 + PC5 + PC6 + PC7 + PC8 +
##      PC9 + PC10 + PC11 + PC12 + PC13 + PC14 + PC15 + PC16 + PC17 +
##      PC18 + PC19 + PC20 + PC21 + PC22 + PC23 + PC24 + PC25 + PC26 +
##      PC27 + PC28 + PC29 + PC30 + PC31 + PC32 + PC33 + PC36 + PC38 +
##      PC39 + PC41 + PC42 + PC43 + PC44 + PC46 + PC47 + PC51 + PC53 +
##      PC55 + PC57 + PC58 + PC59 + PC60 + PC61 + PC63 + PC64 + PC65,
##      data = pcatrain)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -7.5074 -0.6852 -0.0156  0.6879 10.1656
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)  6.639e+01  1.183e-02 5611.605 < 2e-16 ***
## PC1          -1.214e+00  2.679e-02 -45.335 < 2e-16 ***
## PC2          -2.112e-01  4.004e-02  -5.274 1.36e-07 ***
## PC3          -1.154e+00  2.901e-02 -39.776 < 2e-16 ***
## PC4           1.061e+00  2.692e-02  39.420 < 2e-16 ***
## PC5           8.352e-01  3.453e-02  24.190 < 2e-16 ***
## PC6          -4.769e-02  1.489e-02  -3.202 0.00137 **
## PC7           9.447e-02  2.131e-02   4.433 9.37e-06 ***
## PC8          -3.113e-01  2.995e-02 -10.394 < 2e-16 ***
## PC9           8.224e-01  2.697e-02  30.494 < 2e-16 ***
## PC10         -8.017e-01  3.881e-02 -20.658 < 2e-16 ***
## PC11          1.980e+00  4.594e-02  43.103 < 2e-16 ***
## PC12         -1.686e+00  7.751e-02 -21.750 < 2e-16 ***
## PC13          3.518e-01  5.241e-02   6.713 2.01e-11 ***
## PC14         -8.079e-01  3.904e-02 -20.692 < 2e-16 ***
## PC15          4.913e-02  2.900e-02   1.694 0.09025 .
## PC16         -3.199e-01  3.681e-02  -8.692 < 2e-16 ***
## PC17         -6.194e-02  2.741e-02  -2.260 0.02385 *
## PC18          6.512e-01  3.231e-02  20.154 < 2e-16 ***
## PC19         -2.648e-01  4.196e-02  -6.312 2.87e-10 ***
## PC20         -5.763e-01  3.822e-02 -15.078 < 2e-16 ***
## PC21          4.596e-01  4.611e-02   9.967 < 2e-16 ***
## PC22          7.699e-01  3.578e-02  21.521 < 2e-16 ***
## PC23         -1.166e-01  5.367e-02  -2.172 0.02984 *
##
## PC24         -4.553e-01  4.650e-02  -9.790 < 2e-16 ***
## PC25          3.680e-01  6.244e-02   5.895 3.86e-09 ***
## PC26         -1.028e+00  4.522e-02 -22.737 < 2e-16 ***
## PC27         -4.141e-01  5.451e-02  -7.596 3.30e-14 ***
## PC28          2.446e+00  4.352e-02  56.212 < 2e-16 ***
## PC29         -4.901e-01  5.832e-02  -8.403 < 2e-16 ***
## PC30         -9.921e-01  4.308e-02 -23.027 < 2e-16 ***
## PC31          5.700e-01  6.122e-02   9.310 < 2e-16 ***
## PC32         -1.047e-01  6.509e-02  -1.609 0.10759
## PC33         -3.890e-01  4.989e-02  -7.797 6.91e-15 ***
## PC36         -1.437e+00  5.565e-02 -25.829 < 2e-16 ***
## PC38          2.865e-01  7.178e-02   3.991 6.62e-05 ***
## PC39          2.681e+00  3.608e-01   7.430 1.17e-13 ***
```

```
## PC41      1.201e+00  2.991e-01   4.014 6.01e-05 ***
## PC42     -7.814e-01  3.399e-01  -2.299  0.02155 *
## PC43      2.439e+00  3.202e-01   7.615 2.86e-14 ***
## PC44      1.270e+00  3.167e-01   4.010 6.12e-05 ***
## PC46     -1.308e+00  3.316e-01  -3.946 8.01e-05 ***
## PC47      3.068e+00  4.971e-01   6.171 7.05e-10 ***
## PC51      8.712e+14  7.928e+13  10.990 < 2e-16 ***
## PC53      1.725e+14  6.042e+13   2.854  0.00432 **
## PC55     -6.705e+14  1.060e+14  -6.324 2.65e-10 ***
## PC57      4.864e+14  1.007e+14   4.830 1.38e-06 ***
## PC58     -1.949e+14  7.007e+13  -2.782  0.00542 **
## PC59      7.596e+14  6.728e+13  11.291 < 2e-16 ***
## PC60     -4.399e+14  8.883e+13  -4.952 7.45e-07 ***
## PC61     -2.558e+14  1.050e+14  -2.435  0.01489 *
## PC63     -2.562e+14  9.031e+13  -2.838  0.00456 **
## PC64      5.424e+14  8.217e+13   6.600 4.29e-11 ***
## PC65     -2.660e+14  8.897e+13  -2.990  0.00280 **
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.204 on 10692 degrees of freedom
## Multiple R-squared:  0.9694, Adjusted R-squared:  0.9692
## F-statistic: 6389 on 53 and 10692 DF, p-value: < 2.2e-16
```

```
vif(stepcca)
```

```
##          PC1          PC2          PC3          PC4          PC5          PC6
## 151.636613 191.113356 22.967837 10.878129 13.901573  2.128906
##          PC7          PC8          PC9          PC10         PC11         PC12
##   3.140841   6.046625   4.816898   9.866077  13.616534  34.184741
##          PC13         PC14         PC15         PC16         PC17         PC18
##  14.568410   5.955908   3.013131   4.518909   2.140987   2.804158
##          PC19         PC20         PC21         PC22         PC23         PC24
##   4.413751   3.346240   4.493315   2.477223   5.591931   3.610704
##          PC25         PC26         PC27         PC28         PC29         PC30
##   6.291680   3.085522   4.121815   2.438957   4.188158   2.116821
##          PC31         PC32         PC33         PC36         PC38         PC39
##   3.438558   3.845839   2.160820   1.564044   1.294241   2.701403
##          PC41         PC42         PC43         PC44         PC46         PC47
##   1.536036   1.681181   1.443598   1.381553   1.222437   1.502928
##          PC51         PC53         PC55         PC57         PC58         PC59
## 220.265330 21.330477 23.570388 25.435664 88.750203  5.558525
##          PC60         PC61         PC63         PC64         PC65
##  26.393438 63.841576 13.756620 20.553571 57.997625
```

```
pcatestmodel <- predict(stepcca, newdata = pctest)
summary(pctestmodel)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##    50.11  61.11   66.36   66.40  71.76   83.82
```

```
observedval <- pctest$V1
```

Observing Errors

```
SSE <- sum((observedval - pctestmodel) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.9703021
```

```
#RMSE:
rmse <- sqrt(sum((pctestmodel - observedval)^2)/length(observedval))
rmse
```

```
## [1] 1.186133
```

```
#MSE
mse <- (sum((pctestmodel - observedval)^2)/length(observedval))
mse
```

```
## [1] 1.406911
```

```
max(pctestmodel - observedval)
```

```
## [1] 6.87254
```

```
min(pctestmodel - observedval)
```

```
## [1] -7.441717
```

##Base Model1 ##Linear Regression on the whole dataset #View(train)

```
model1 <- lm(formula = Overall ~ ., data = train)
summary(model1)
```

```
##
## Call:
## lm(formula = Overall ~ ., data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -7.3072 -0.7149 -0.0177  0.7030  9.8168
##
## Coefficients: (17 not defined because of singularities)
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   3.947e+01  5.916e-01  66.711 < 2e-16 ***
## X             -8.287e-04  6.851e-06 -120.964 < 2e-16 ***
## Age           2.282e-01  6.194e-03  36.843 < 2e-16 ***
## Potential     2.238e-01  4.476e-03  50.004 < 2e-16 ***
## Special      -2.092e-04  1.809e-03  -0.116 0.907953
## CAM          -7.048e-02  4.065e-02  -1.734 0.082937 .
## CB           -1.344e-02  4.089e-02  -0.329 0.742344
## CDM          -2.764e-02  4.046e-02  -0.683 0.494502
## CF           7.076e-02  4.081e-02   1.734 0.082959 .
## CM          -4.294e-03  4.029e-02  -0.107 0.915126
## ID           3.594e-06  5.784e-07   6.213 5.38e-10 ***
## LAM           NA         NA         NA      NA
## LB           7.080e-02  4.090e-02   1.731 0.083492 .
## LCB           NA         NA         NA      NA
## LCM           NA         NA         NA      NA
## LDM           NA         NA         NA      NA
## LF           NA         NA         NA      NA
## LM          -7.329e-02  4.082e-02  -1.795 0.072642 .
## LS           1.425e-01  4.059e-02   3.510 0.000449 ***
## LW          -1.349e-02  4.045e-02  -0.333 0.738866
## LWB          -2.119e-02  4.089e-02  -0.518 0.604410
## RAM           NA         NA         NA      NA
## RB           NA         NA         NA      NA
## RCB           NA         NA         NA      NA
## RCM           NA         NA         NA      NA
## RDM           NA         NA         NA      NA
## RF           NA         NA         NA      NA
## RM           NA         NA         NA      NA
## RS           NA         NA         NA      NA
## RW           NA         NA         NA      NA
## RWB           NA         NA         NA      NA
## ST           NA         NA         NA      NA
## Acceleration  1.430e-02  6.202e-03   2.306 0.021112 *
## Aggression   -6.178e-04  4.109e-03  -0.150 0.880484
## Agility       2.402e-03  3.100e-03   0.775 0.438381
## Balance      -2.330e-03  2.484e-03  -0.938 0.348258
## Ball.control  4.366e-02  1.503e-02   2.906 0.003673 **
## Composure    1.878e-02  2.048e-03   9.167 < 2e-16 ***
## Crossing     1.109e-02  8.643e-03   1.283 0.199419
## Curve        -2.995e-03  2.566e-03  -1.167 0.243153
## Dribbling     6.334e-04  1.277e-02   0.050 0.960429
## Finishing    -1.161e-02  1.009e-02  -1.151 0.249905
## Free.kick.accuracy 1.761e-03  2.352e-03   0.748 0.454228
```

```

## GK.diving          4.726e-03  4.203e-03   1.124 0.260871
## GK.handling        -4.293e-04  4.292e-03  -0.100 0.920328
## GK.kicking          5.204e-03  4.104e-03   1.268 0.204833
## GK.positioning      -6.027e-03  4.209e-03  -1.432 0.152157
## GK.reflexes         -3.304e-03  4.221e-03  -0.783 0.433712
## Heading.accuracy    1.871e-03  6.047e-03   0.309 0.757075
## Interceptions        3.072e-03  1.095e-02   0.281 0.779065
## Jumping              2.748e-04  2.475e-03   0.111 0.911588
## Long.passing         1.922e-03  7.570e-03   0.254 0.799619
## Long.shots          -6.945e-03  4.313e-03  -1.610 0.107346
## Marking              2.965e-03  8.536e-03   0.347 0.728336
## Penalties           -1.711e-04  2.544e-03  -0.067 0.946396
## Positioning         -2.754e-02  9.855e-03  -2.795 0.005207 **
## Reactions            4.011e-02  9.927e-03   4.040 5.38e-05 ***
## Short.passing        3.590e-02  1.441e-02   2.492 0.012722 *
## Shot.power          -1.868e-02  4.559e-03  -4.096 4.23e-05 ***
## Sliding.tackle      -1.354e-02  9.217e-03  -1.469 0.141882
## Sprint.speed         2.424e-03  6.496e-03   0.373 0.709042
## Stamina              9.360e-03  6.987e-03   1.340 0.180403
## Standing.tackle     1.215e-02  1.086e-02   1.119 0.263125
## Strength             1.316e-02  5.056e-03   2.602 0.009289 **
## Vision               3.018e-03  9.639e-03   0.313 0.754210
## Volleys              NA         NA         NA         NA
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.222 on 10697 degrees of freedom
## Multiple R-squared:  0.9688, Adjusted R-squared:  0.9686
## F-statistic: 6915 on 48 and 10697 DF, p-value: < 2.2e-16

```

##Model Validation - VIF

```
alias(lm(formula = Overall ~ ., data = train))
```

```
## Model :
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + RW + RWB +
##      ST + Acceleration + Aggression + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##      GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision + Volleys
```

```
##
```

```
## Complete :
```

```
##      (Intercept) X   Age Potential Special CAM CB CDM CF CM ID LB LM LS
## LAM      0         0 0 0      0      1 0 0 0 0 0 0 0 0
## LCB      0         0 0 0      0      0 1 0 0 0 0 0 0 0
## LCM      0         0 0 0      0      0 0 0 0 1 0 0 0 0
## LDM      0         0 0 0      0      0 0 1 0 0 0 0 0 0
## LF       0         0 0 0      0      0 0 0 1 0 0 0 0 0
## RAM      0         0 0 0      0      1 0 0 0 0 0 0 0 0
## RB       0         0 0 0      0      0 0 0 0 0 0 1 0 0
## RCB      0         0 0 0      0      0 1 0 0 0 0 0 0 0
## RCM      0         0 0 0      0      0 0 0 0 1 0 0 0 0
## RDM      0         0 0 0      0      0 0 1 0 0 0 0 0 0
## RF       0         0 0 0      0      0 0 0 1 0 0 0 0 0
## RM       0         0 0 0      0      0 0 0 0 0 0 0 1 0
## RS       0         0 0 0      0      0 0 0 0 0 0 0 0 1
## RW       0         0 0 0      0      0 0 0 0 0 0 0 0 0
## RWB      0         0 0 0      0      0 0 0 0 0 0 0 0 0
## ST       0         0 0 0      0      0 0 0 0 0 0 0 0 1
## Volleys  0         0 0 0      1      0 0 0 0 0 0 0 0 0
```

```
##      LW LWB Acceleration Aggression Agility Balance Ball.control
```

```
## LAM      0 0 0      0      0      0      0
## LCB      0 0 0      0      0      0      0
## LCM      0 0 0      0      0      0      0
## LDM      0 0 0      0      0      0      0
## LF       0 0 0      0      0      0      0
## RAM      0 0 0      0      0      0      0
## RB       0 0 0      0      0      0      0
## RCB      0 0 0      0      0      0      0
## RCM      0 0 0      0      0      0      0
## RDM      0 0 0      0      0      0      0
## RF       0 0 0      0      0      0      0
## RM       0 0 0      0      0      0      0
## RS       0 0 0      0      0      0      0
## RW       1 0 0      0      0      0      0
## RWB      0 1 0      0      0      0      0
## ST       0 0 0      0      0      0      0
## Volleys  0 0 -1     -1     -1     -1     -1
```

```
##      Composure Crossing Curve Dribbling Finishing Free.kick.accuracy
```

```
## LAM      0      0      0      0      0      0
## LCB      0      0      0      0      0      0
## LCM      0      0      0      0      0      0
```

##	LDM	0	0	0	0	0	0
##	LF	0	0	0	0	0	0
##	RAM	0	0	0	0	0	0
##	RB	0	0	0	0	0	0
##	RCB	0	0	0	0	0	0
##	RCM	0	0	0	0	0	0
##	RDM	0	0	0	0	0	0
##	RF	0	0	0	0	0	0
##	RM	0	0	0	0	0	0
##	RS	0	0	0	0	0	0
##	RW	0	0	0	0	0	0
##	RWB	0	0	0	0	0	0
##	ST	0	0	0	0	0	0
##	Volleys	0	-1	-1	-1	-1	-1
##	GK.diving GK.handling GK.kicking GK.positioning GK.reflexes						
##	LAM	0	0	0	0	0	0
##	LCB	0	0	0	0	0	0
##	LCM	0	0	0	0	0	0
##	LDM	0	0	0	0	0	0
##	LF	0	0	0	0	0	0
##	RAM	0	0	0	0	0	0
##	RB	0	0	0	0	0	0
##	RCB	0	0	0	0	0	0
##	RCM	0	0	0	0	0	0
##	RDM	0	0	0	0	0	0
##	RF	0	0	0	0	0	0
##	RM	0	0	0	0	0	0
##	RS	0	0	0	0	0	0
##	RW	0	0	0	0	0	0
##	RWB	0	0	0	0	0	0
##	ST	0	0	0	0	0	0
##	Volleys	-1	-1	-1	-1	-1	-1
##	Heading.accuracy Interceptions Jumping Long.passing Long.shots						
##	LAM	0	0	0	0	0	0
##	LCB	0	0	0	0	0	0
##	LCM	0	0	0	0	0	0
##	LDM	0	0	0	0	0	0
##	LF	0	0	0	0	0	0
##	RAM	0	0	0	0	0	0
##	RB	0	0	0	0	0	0
##	RCB	0	0	0	0	0	0
##	RCM	0	0	0	0	0	0
##	RDM	0	0	0	0	0	0
##	RF	0	0	0	0	0	0
##	RM	0	0	0	0	0	0
##	RS	0	0	0	0	0	0
##	RW	0	0	0	0	0	0
##	RWB	0	0	0	0	0	0
##	ST	0	0	0	0	0	0
##	Volleys	-1	-1	-1	-1	-1	-1
##	Marking Penalties Positioning Reactions Short.passing Shot.power						
##	LAM	0	0	0	0	0	0
##	LCB	0	0	0	0	0	0
##	LCM	0	0	0	0	0	0

## LDM	0	0	0	0	0	0
## LF	0	0	0	0	0	0
## RAM	0	0	0	0	0	0
## RB	0	0	0	0	0	0
## RCB	0	0	0	0	0	0
## RCM	0	0	0	0	0	0
## RDM	0	0	0	0	0	0
## RF	0	0	0	0	0	0
## RM	0	0	0	0	0	0
## RS	0	0	0	0	0	0
## RW	0	0	0	0	0	0
## RWB	0	0	0	0	0	0
## ST	0	0	0	0	0	0
## Volleys	-1	-1	-1	-1	-1	-1
##	Sliding.tackle Sprint.speed Stamina Standing.tackle Strength					
## LAM	0	0	0	0	0	0
## LCB	0	0	0	0	0	0
## LCM	0	0	0	0	0	0
## LDM	0	0	0	0	0	0
## LF	0	0	0	0	0	0
## RAM	0	0	0	0	0	0
## RB	0	0	0	0	0	0
## RCB	0	0	0	0	0	0
## RCM	0	0	0	0	0	0
## RDM	0	0	0	0	0	0
## RF	0	0	0	0	0	0
## RM	0	0	0	0	0	0
## RS	0	0	0	0	0	0
## RW	0	0	0	0	0	0
## RWB	0	0	0	0	0	0
## ST	0	0	0	0	0	0
## Volleys	-1	-1	-1	-1	-1	-1
##	Vision					
## LAM	0					
## LCB	0					
## LCM	0					
## LDM	0					
## LF	0					
## RAM	0					
## RB	0					
## RCB	0					
## RCM	0					
## RDM	0					
## RF	0					
## RM	0					
## RS	0					
## RW	0					
## RWB	0					
## ST	0					
## Volleys	-1					

```
# vif(model1)

#Fit the model to test dataset
testmodel <- predict(model1, newdata = test)
```

```
## Warning in predict.lm(model1, newdata = test): prediction from a rank-
## deficient fit may be misleading
```

```
summary(testmodel)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  49.66   61.14   66.35   66.34   71.63   84.77
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE <- sum((observedval - testmodel) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.9685626
```

```
#RMSE:
rmse <- sqrt(sum((testmodel - observedval)^2)/length(observedval))
rmse
```

```
## [1] 1.207095
```

```
#MSE
mse <- (sum((testmodel - observedval)^2)/length(observedval))
mse
```

```
## [1] 1.457077
```

##Model Comparison (Selection Method - AIC) #Applying AIC method on model1

```
step1 <- stepAIC(model1, direction = "both")
```

```

## Start:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + RW + RWB +
##      ST + Acceleration + Aggression + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##      GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision + Volleys
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + RW + RWB +
##      ST + Acceleration + Aggression + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##      GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + RW + RWB +
##      Acceleration + Aggression + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##      GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + RW + Acceleration +
##      Aggression + Agility + Balance + Ball.control + Composure +
##      Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##      GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59

```

```

## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##   CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##   LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + Acceleration +
##   Aggression + Agility + Balance + Ball.control + Composure +
##   Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##   GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##   CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##   LWB + RAM + RB + RCB + RCM + RDM + RF + RM + Acceleration +
##   Aggression + Agility + Balance + Ball.control + Composure +
##   Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##   GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##   CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##   LWB + RAM + RB + RCB + RCM + RDM + RF + Acceleration + Aggression +
##   Agility + Balance + Ball.control + Composure + Crossing +
##   Curve + Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##   GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##   CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##   LWB + RAM + RB + RCB + RCM + RDM + Acceleration + Aggression +
##   Agility + Balance + Ball.control + Composure + Crossing +
##   Curve + Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##   GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##   CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##   LWB + RAM + RB + RCB + RCM + RDM + Acceleration + Aggression +
##   Agility + Balance + Ball.control + Composure + Crossing +
##   Curve + Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##   GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##   CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +

```

```

##      LWB + RAM + RB + RCB + RCM + Acceleration + Aggression +
##      Agility + Balance + Ball.control + Composure + Crossing +
##      Curve + Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##      GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + Acceleration + Aggression + Agility +
##      Balance + Ball.control + Composure + Crossing + Curve + Dribbling +
##      Finishing + Free.kick.accuracy + GK.diving + GK.handling +
##      GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Penalties + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##      Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + Acceleration + Aggression + Agility + Balance +
##      Ball.control + Composure + Crossing + Curve + Dribbling +
##      Finishing + Free.kick.accuracy + GK.diving + GK.handling +
##      GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Penalties + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##      Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + Acceleration + Aggression + Agility + Balance +
##      Ball.control + Composure + Crossing + Curve + Dribbling +
##      Finishing + Free.kick.accuracy + GK.diving + GK.handling +
##      GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Penalties + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##      Strength + Vision
##
##
## Step:  AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + Acceleration + Aggression + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +

```

```
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision
##
##
## Step: AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
## CM + ID + LAM + LB + LCB + LCM + LDM + LM + LS + LW + LWB +
## Acceleration + Aggression + Agility + Balance + Ball.control +
## Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision
##
##
## Step: AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
## CM + ID + LAM + LB + LCB + LCM + LM + LS + LW + LWB + Acceleration +
## Aggression + Agility + Balance + Ball.control + Composure +
## Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision
##
##
## Step: AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
## CM + ID + LAM + LB + LCB + LM + LS + LW + LWB + Acceleration +
## Aggression + Agility + Balance + Ball.control + Composure +
## Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision
##
##
## Step: AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
## CM + ID + LAM + LB + LM + LS + LW + LWB + Acceleration +
## Aggression + Agility + Balance + Ball.control + Composure +
## Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision
##
##
```

```

##
## Step: AIC=4354.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
## CM + ID + LB + LM + LS + LW + LWB + Acceleration + Aggression +
## Agility + Balance + Ball.control + Composure + Crossing +
## Curve + Dribbling + Finishing + Free.kick.accuracy + GK.diving +
## GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision
##
##           Df Sum of Sq   RSS   AIC
## - Dribbling      1      0.0 15969 4352.6
## - Penalties      1      0.0 15969 4352.6
## - GK.handling    1      0.0 15969 4352.6
## - CM             1      0.0 15969 4352.6
## - Jumping        1      0.0 15969 4352.6
## - Special         1      0.0 15969 4352.6
## - Aggression      1      0.0 15969 4352.6
## - Long.passing    1      0.1 15969 4352.7
## - Interceptions   1      0.1 15969 4352.7
## - Heading.accuracy 1      0.1 15969 4352.7
## - Vision          1      0.1 15969 4352.7
## - CB             1      0.2 15969 4352.7
## - LW             1      0.2 15969 4352.7
## - Marking         1      0.2 15969 4352.7
## - Sprint.speed    1      0.2 15969 4352.7
## - LWB            1      0.4 15969 4352.9
## - CDM            1      0.7 15970 4353.1
## - Free.kick.accuracy 1      0.8 15970 4353.2
## - Agility         1      0.9 15970 4353.2
## - GK.reflexes     1      0.9 15970 4353.2
## - Balance         1      1.3 15970 4353.5
## - Standing.tackle 1      1.9 15971 4353.8
## - GK.diving       1      1.9 15971 4353.9
## - Finishing       1      2.0 15971 4353.9
## - Curve           1      2.0 15971 4354.0
## - GK.kicking      1      2.4 15971 4354.2
## - Crossing        1      2.5 15971 4354.2
## - Stamina         1      2.7 15972 4354.4
## <none>                15969 4354.6
## - GK.positioning  1      3.1 15972 4354.6
## - Sliding.tackle  1      3.2 15972 4354.8
## - Long.shots      1      3.9 15973 4355.2
## - LB             1      4.5 15973 4355.6
## - CF             1      4.5 15973 4355.6
## - CAM            1      4.5 15973 4355.6
## - LM             1      4.8 15974 4355.8
## - Acceleration    1      7.9 15977 4357.9
## - Short.passing   1      9.3 15978 4358.8
## - Strength        1     10.1 15979 4359.4
## - Positioning     1     11.7 15981 4360.4
## - Ball.control    1     12.6 15981 4361.1

```

```

## - LS          1      18.4 15987  4365.0
## - Reactions   1      24.4 15993  4369.0
## - Shot.power  1      25.1 15994  4369.4
## - ID          1      57.6 16027  4391.3
## - Composure  1     125.4 16094  4436.7
## - Age        1    2026.4 17995  5636.4
## - Potential   1    3732.7 19702  6609.9
## - X          1   21843.8 37813 13615.7
##
## Step:  AIC=4352.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LB + LM + LS + LW + LWB + Acceleration + Aggression +
##      Agility + Balance + Ball.control + Composure + Crossing +
##      Curve + Finishing + Free.kick.accuracy + GK.diving + GK.handling +
##      GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Penalties + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##      Strength + Vision
##
##              Df Sum of Sq  RSS    AIC
## - Penalties    1      0.0 15969  4350.6
## - CM           1      0.0 15969  4350.6
## - GK.handling  1      0.0 15969  4350.6
## - Jumping      1      0.0 15969  4350.6
## - Special      1      0.0 15969  4350.6
## - Aggression   1      0.0 15969  4350.6
## - Long.passing  1      0.1 15969  4350.7
## - Interceptions 1      0.1 15969  4350.7
## - Heading.accuracy 1      0.1 15969  4350.7
## - CB           1      0.2 15969  4350.7
## - Marking      1      0.2 15969  4350.7
## - LW           1      0.2 15969  4350.7
## - Vision       1      0.3 15969  4350.8
## - Sprint.speed  1      0.3 15969  4350.8
## - LWB          1      0.4 15969  4350.9
## - CDM          1      0.7 15970  4351.1
## - Free.kick.accuracy 1      0.8 15970  4351.2
## - GK.reflexes  1      0.9 15970  4351.2
## - Agility      1      1.0 15970  4351.3
## - Balance      1      1.3 15970  4351.5
## - Standing.tackle 1      1.9 15971  4351.8
## - GK.diving    1      1.9 15971  4351.9
## - Curve        1      2.0 15971  4352.0
## - GK.kicking   1      2.4 15971  4352.2
## - Stamina      1      2.9 15972  4352.5
## <none>                15969  4352.6
## - GK.positioning 1      3.1 15972  4352.7
## - Sliding.tackle 1      3.3 15972  4352.8
## - Crossing     1      3.3 15972  4352.8
## - LB          1      4.5 15973  4353.6
## - CAM         1      5.3 15974  4354.1
## - Finishing    1      5.5 15974  4354.3
## - CF          1      5.7 15975  4354.5

```



```

## + Dribbling          1      0.0 15969 4354.6
## + Volleys            1      0.0 15969 4354.6
## - LM                 1      6.0 15975 4354.6
## - Long.shots         1      8.1 15977 4356.0
## - Strength           1     10.1 15979 4357.4
## - LS                 1     19.1 15988 4363.4
## - Short.passing      1     20.1 15989 4364.1
## - Acceleration       1     20.9 15990 4364.7
## - Shot.power         1     29.8 15999 4370.6
## - Ball.control       1     44.9 16014 4380.8
## - Reactions          1     54.3 16023 4387.1
## - Positioning        1     55.4 16024 4387.8
## - ID                 1     57.6 16027 4389.3
## - Composure          1    125.5 16094 4434.7
## - Age                1   2027.1 17996 5634.8
## - Potential          1   3733.0 19702 6608.0
## - X                  1  21850.5 37819 13615.6
##
## Step:  AIC=4350.59
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LB + LM + LS + LW + LWB + Acceleration + Aggression +
##      Agility + Balance + Ball.control + Composure + Crossing +
##      Curve + Finishing + Free.kick.accuracy + GK.diving + GK.handling +
##      GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##      Df Sum of Sq  RSS    AIC
## - GK.handling      1      0.0 15969 4348.6
## - CM                1      0.0 15969 4348.6
## - Aggression        1      0.0 15969 4348.6
## - Jumping           1      0.0 15969 4348.6
## - Special           1      0.1 15969 4348.7
## - Long.passing      1      0.1 15969 4348.7
## - Interceptions     1      0.1 15969 4348.7
## - Heading.accuracy  1      0.1 15969 4348.7
## - CB                1      0.2 15969 4348.7
## - LW                1      0.2 15969 4348.7
## - Marking           1      0.2 15969 4348.7
## - Vision            1      0.3 15969 4348.8
## - Sprint.speed      1      0.4 15969 4348.8
## - LWB               1      0.4 15969 4348.9
## - CDM               1      0.7 15970 4349.1
## - GK.reflexes       1      1.0 15970 4349.3
## - Free.kick.accuracy 1      1.3 15970 4349.5
## - Agility           1      1.5 15970 4349.6
## - Balance           1      1.8 15971 4349.8
## - Standing.tackle   1      1.9 15971 4349.9
## - GK.diving         1      2.2 15971 4350.1
## - GK.kicking        1      2.8 15972 4350.5
## - Curve             1      2.9 15972 4350.6
## <none>              15969 4350.6
## - Stamina          1      3.1 15972 4350.7

```

```

## - Sliding.tackle      1      3.3 15972 4350.8
## - GK.positioning      1      3.3 15972 4350.8
## - Crossing            1      3.4 15972 4350.9
## - LB                  1      4.5 15973 4351.6
## - CAM                  1      5.3 15974 4352.2
## - CF                  1      5.8 15975 4352.5
## - Finishing           1      5.8 15975 4352.5
## + Penalties           1      0.0 15969 4352.6
## + Volleys             1      0.0 15969 4352.6
## + Dribbling           1      0.0 15969 4352.6
## - LM                  1      6.0 15975 4352.6
## - Long.shots          1      8.9 15978 4354.6
## - Strength            1     10.4 15979 4355.6
## - Short.passing       1     20.2 15989 4362.2
## - LS                  1     21.7 15991 4363.2
## - Acceleration        1     21.8 15991 4363.3
## - Shot.power          1     29.8 15999 4368.6
## - Ball.control        1     45.0 16014 4378.8
## - Reactions           1     54.3 16023 4385.1
## - Positioning         1     56.5 16025 4386.6
## - ID                   1     57.6 16027 4387.3
## - Composure           1    125.7 16095 4432.8
## - Age                 1   2029.4 17998 5634.2
## - Potential           1   3736.3 19705 6607.8
## - X                   1  21850.9 37820 13613.7
##
## Step:  AIC=4348.6
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LB + LM + LS + LW + LWB + Acceleration + Aggression +
##      Agility + Balance + Ball.control + Composure + Crossing +
##      Curve + Finishing + Free.kick.accuracy + GK.diving + GK.kicking +
##      GK.positioning + GK.reflexes + Heading.accuracy + Interceptions +
##      Jumping + Long.passing + Long.shots + Marking + Positioning +
##      Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##      Df Sum of Sq  RSS    AIC
## - CM          1      0.0 15969 4346.6
## - Aggression   1      0.0 15969 4346.6
## - Jumping      1      0.1 15969 4346.6
## - Long.passing  1      0.1 15969 4346.7
## - Interceptions 1      0.1 15969 4346.7
## - Special      1      0.1 15969 4346.7
## - Heading.accuracy 1      0.1 15969 4346.7
## - CB          1      0.2 15969 4346.7
## - LW          1      0.2 15969 4346.7
## - Marking      1      0.2 15969 4346.7
## - Vision       1      0.3 15969 4346.8
## - Sprint.speed  1      0.4 15969 4346.8
## - LWB         1      0.4 15969 4346.9
## - CDM         1      0.7 15970 4347.1
## - GK.reflexes  1      1.0 15970 4347.3
## - Free.kick.accuracy 1      1.4 15970 4347.5
## - Agility      1      1.5 15970 4347.6

```

```

## - Balance          1          1.8 15971  4347.8
## - Standing.tackle  1          1.9 15971  4347.9
## - GK.diving        1          2.2 15971  4348.1
## - GK.kicking       1          2.8 15972  4348.5
## - Curve            1          2.9 15972  4348.6
## <none>              15969  4348.6
## - Stamina          1          3.1 15972  4348.7
## - Sliding.tackle   1          3.3 15972  4348.8
## - GK.positioning    1          3.3 15972  4348.8
## - Crossing          1          3.4 15972  4348.9
## - LB               1          4.5 15973  4349.6
## - CAM              1          5.3 15974  4350.2
## - CF               1          5.8 15975  4350.5
## - Finishing         1          5.9 15975  4350.5
## + GK.handling       1          0.0 15969  4350.6
## + Volleys           1          0.0 15969  4350.6
## + Dribbling         1          0.0 15969  4350.6
## + Penalties         1          0.0 15969  4350.6
## - LM               1          6.0 15975  4350.6
## - Long.shots        1          8.9 15978  4352.6
## - Strength          1         10.4 15979  4353.6
## - Short.passing     1         20.2 15989  4360.2
## - Acceleration      1         21.9 15991  4361.3
## - LS               1         22.0 15991  4361.4
## - Shot.power        1         29.8 15999  4366.6
## - Ball.control      1         45.0 16014  4376.8
## - Reactions         1         54.3 16023  4383.1
## - Positioning       1         56.7 16026  4384.7
## - ID               1         57.6 16027  4385.3
## - Composure         1        125.8 16095  4431.0
## - Age              1       2032.0 18001  5633.7
## - Potential         1       3741.7 19711  6608.8
## - X                1     21858.4 37827 13613.8
##
## Step:  AIC=4346.61
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      ID + LB + LM + LS + LW + LWB + Acceleration + Aggression +
##      Agility + Balance + Ball.control + Composure + Crossing +
##      Curve + Finishing + Free.kick.accuracy + GK.diving + GK.kicking +
##      GK.positioning + GK.reflexes + Heading.accuracy + Interceptions +
##      Jumping + Long.passing + Long.shots + Marking + Positioning +
##      Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS    AIC
## - Aggression    1      0.0 15969  4344.6
## - Jumping        1      0.1 15969  4344.6
## - Interceptions  1      0.1 15969  4344.7
## - Long.passing   1      0.1 15969  4344.7
## - Special        1      0.1 15969  4344.7
## - Heading.accuracy 1      0.1 15969  4344.7
## - CB            1      0.2 15969  4344.7
## - Marking        1      0.2 15969  4344.7
## - LW            1      0.2 15969  4344.8

```

## - Vision	1	0.4	15969	4344.9
## - LWB	1	0.4	15969	4344.9
## - Sprint.speed	1	0.4	15969	4344.9
## - CDM	1	0.7	15970	4345.1
## - GK.reflexes	1	1.0	15970	4345.3
## - Free.kick.accuracy	1	1.4	15970	4345.5
## - Agility	1	1.6	15970	4345.7
## - Balance	1	1.8	15971	4345.8
## - Standing.tackle	1	1.9	15971	4345.9
## - GK.diving	1	2.2	15971	4346.1
## - GK.kicking	1	2.8	15972	4346.5
## - Curve	1	3.0	15972	4346.6
## <none>			15969	4346.6
## - Sliding.tackle	1	3.3	15972	4346.8
## - Stamina	1	3.3	15972	4346.8
## - GK.positioning	1	3.3	15972	4346.9
## - Crossing	1	3.6	15972	4347.0
## - LB	1	4.5	15973	4347.6
## - CAM	1	5.4	15974	4348.3
## - CF	1	5.8	15975	4348.5
## - Finishing	1	5.9	15975	4348.6
## + CM	1	0.0	15969	4348.6
## + LCM	1	0.0	15969	4348.6
## + RCM	1	0.0	15969	4348.6
## + GK.handling	1	0.0	15969	4348.6
## + Volleys	1	0.0	15969	4348.6
## + Penalties	1	0.0	15969	4348.6
## + Dribbling	1	0.0	15969	4348.6
## - LM	1	6.1	15975	4348.7
## - Long.shots	1	10.4	15979	4351.6
## - Strength	1	10.4	15979	4351.6
## - LS	1	22.0	15991	4359.4
## - Acceleration	1	24.3	15993	4361.0
## - Short.passing	1	25.2	15994	4361.5
## - Shot.power	1	29.9	15999	4364.7
## - Ball.control	1	51.0	16020	4378.9
## - Reactions	1	57.5	16026	4383.2
## - ID	1	57.6	16027	4383.3
## - Positioning	1	57.8	16027	4383.4
## - Composure	1	125.8	16095	4429.0
## - Age	1	2032.5	18001	5632.1
## - Potential	1	3741.9	19711	6606.9
## - X	1	21858.5	37827	13611.8

##

Step: AIC=4344.63

Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +

ID + LB + LM + LS + LW + LWB + Acceleration + Agility + Balance +

Ball.control + Composure + Crossing + Curve + Finishing +

Free.kick.accuracy + GK.diving + GK.kicking + GK.positioning +

GK.reflexes + Heading.accuracy + Interceptions + Jumping +

Long.passing + Long.shots + Marking + Positioning + Reactions +

Short.passing + Shot.power + Sliding.tackle + Sprint.speed +

Stamina + Standing.tackle + Strength + Vision

##

##	Df	Sum of Sq	RSS	AIC
## - Jumping	1	0.2	15969	4342.7
## - Special	1	0.2	15969	4342.8
## - LW	1	0.2	15969	4342.8
## - Long.passing	1	0.2	15969	4342.8
## - Heading.accuracy	1	0.3	15969	4342.8
## - Interceptions	1	0.4	15969	4342.9
## - LWB	1	0.4	15969	4342.9
## - Sprint.speed	1	0.5	15969	4342.9
## - Vision	1	0.5	15969	4342.9
## - CB	1	0.6	15970	4343.0
## - Marking	1	0.8	15970	4343.1
## - GK.reflexes	1	1.0	15970	4343.3
## - CDM	1	1.2	15970	4343.4
## - Free.kick.accuracy	1	1.5	15970	4343.6
## - Agility	1	1.6	15971	4343.7
## - Balance	1	1.8	15971	4343.8
## - GK.diving	1	2.2	15971	4344.1
## - GK.kicking	1	2.8	15972	4344.5
## - Curve	1	2.9	15972	4344.6
## <none>			15969	4344.6
## - GK.positioning	1	3.3	15972	4344.9
## - Crossing	1	3.6	15973	4345.1
## - Stamina	1	3.7	15973	4345.1
## - Sliding.tackle	1	3.9	15973	4345.3
## - LB	1	4.5	15973	4345.6
## - Standing.tackle	1	5.2	15974	4346.2
## - CAM	1	5.4	15974	4346.3
## - CF	1	5.8	15975	4346.5
## - Finishing	1	5.9	15975	4346.6
## + Aggression	1	0.0	15969	4346.6
## + Volleys	1	0.0	15969	4346.6
## + CM	1	0.0	15969	4346.6
## + LCM	1	0.0	15969	4346.6
## + RCM	1	0.0	15969	4346.6
## + GK.handling	1	0.0	15969	4346.6
## + Dribbling	1	0.0	15969	4346.6
## + Penalties	1	0.0	15969	4346.6
## - LM	1	6.1	15975	4346.8
## - Long.shots	1	10.4	15979	4349.6
## - LS	1	22.3	15991	4357.6
## - Acceleration	1	24.5	15993	4359.1
## - Strength	1	28.9	15998	4362.0
## - Shot.power	1	29.9	15999	4362.7
## - Short.passing	1	36.7	16006	4367.3
## - ID	1	57.7	16027	4381.4
## - Positioning	1	57.9	16027	4381.5
## - Ball.control	1	64.9	16034	4386.2
## - Reactions	1	75.3	16044	4393.2
## - Composure	1	125.9	16095	4427.0
## - Age	1	2033.5	18002	5630.7
## - Potential	1	3745.4	19714	6606.8
## - X	1	21861.2	37830	13610.6
##				

```

## Step: AIC=4342.73
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
## ID + LB + LM + LS + LW + LWB + Acceleration + Agility + Balance +
## Ball.control + Composure + Crossing + Curve + Finishing +
## Free.kick.accuracy + GK.diving + GK.kicking + GK.positioning +
## GK.reflexes + Heading.accuracy + Interceptions + Long.passing +
## Long.shots + Marking + Positioning + Reactions + Short.passing +
## Shot.power + Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
## Strength + Vision
##
##
##          Df Sum of Sq  RSS    AIC
## - Special          1      0.1 15969  4340.8
## - LW                1      0.2 15969  4340.9
## - Heading.accuracy  1      0.2 15969  4340.9
## - Long.passing      1      0.3 15969  4341.0
## - Interceptions     1      0.4 15969  4341.0
## - LWB               1      0.4 15970  4341.0
## - Sprint.speed      1      0.4 15970  4341.0
## - CB                1      0.5 15970  4341.0
## - Vision            1      0.5 15970  4341.1
## - Marking           1      0.7 15970  4341.2
## - GK.reflexes       1      1.1 15970  4341.5
## - Free.kick.accuracy 1      1.3 15970  4341.6
## - Agility           1      1.5 15971  4341.8
## - CDM               1      1.9 15971  4342.0
## - Balance           1      1.9 15971  4342.0
## - GK.diving         1      2.1 15971  4342.1
## - GK.kicking        1      2.7 15972  4342.6
## <none>              15969  4342.7
## - GK.positioning    1      3.5 15973  4343.1
## - Crossing          1      3.5 15973  4343.1
## - Curve             1      3.6 15973  4343.2
## - Stamina           1      3.8 15973  4343.3
## - Sliding.tackle    1      4.1 15973  4343.5
## - LB                1      4.5 15974  4343.8
## - Standing.tackle   1      5.2 15974  4344.2
## - CAM               1      5.4 15975  4344.4
## - CF                1      5.7 15975  4344.6
## + Jumping           1      0.2 15969  4344.6
## - Finishing         1      5.8 15975  4344.6
## + Aggression        1      0.1 15969  4344.6
## + Penalties         1      0.0 15969  4344.7
## + GK.handling       1      0.0 15969  4344.7
## + CM                1      0.0 15969  4344.7
## + LCM               1      0.0 15969  4344.7
## + RCM               1      0.0 15969  4344.7
## + Dribbling         1      0.0 15969  4344.7
## + Volleys           1      0.0 15969  4344.7
## - LM                1      6.1 15975  4344.9
## - Long.shots        1     10.8 15980  4348.0
## - LS                1     22.3 15991  4355.7
## - Acceleration      1     24.3 15993  4357.1
## - Strength          1     28.8 15998  4360.1
## - Shot.power        1     29.9 15999  4360.8

```

```

## - Short.passing      1      39.2 16008 4367.1
## - ID                  1      57.6 16027 4379.4
## - Positioning        1      57.8 16027 4379.6
## - Ball.control       1      68.9 16038 4387.0
## - Reactions          1      76.9 16046 4392.3
## - Composure          1     125.8 16095 4425.0
## - Age                1    2033.6 18003 5628.8
## - Potential          1     3745.3 19714 6604.8
## - X                  1   21866.2 37835 13610.1
##
## Step:  AIC=4340.78
## Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +
##      LM + LS + LW + LWB + Acceleration + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Finishing + Free.kick.accuracy +
##      GK.diving + GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Long.passing + Long.shots + Marking + Positioning +
##      Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS    AIC
## - LW          1      0.2 15969 4338.9
## - Long.passing 1      0.3 15969 4339.0
## - Heading.accuracy 1      0.3 15970 4339.0
## - LWB          1      0.4 15970 4339.1
## - Vision       1      0.4 15970 4339.1
## - Interceptions 1      0.4 15970 4339.1
## - Sprint.speed 1      0.4 15970 4339.1
## - Marking      1      0.8 15970 4339.3
## - CB           1      1.0 15970 4339.5
## - GK.reflexes  1      1.3 15970 4339.7
## - Agility      1      1.5 15971 4339.8
## - Free.kick.accuracy 1      1.6 15971 4339.9
## - CDM          1      1.9 15971 4340.0
## - GK.diving    1      2.0 15971 4340.2
## - GK.kicking   1      2.7 15972 4340.6
## <none>                15969 4340.8
## - Crossing     1      3.4 15973 4341.1
## - Balance      1      3.6 15973 4341.2
## - Stamina      1      3.7 15973 4341.3
## - Sliding.tackle 1      4.0 15973 4341.5
## - GK.positioning 1      4.0 15973 4341.5
## - LB           1      4.5 15974 4341.8
## - CAM          1      5.4 15975 4342.4
## - Standing.tackle 1      5.7 15975 4342.6
## - Finishing    1      5.7 15975 4342.6
## - CF           1      5.7 15975 4342.6
## + Aggression   1      0.1 15969 4342.7
## + Penalties    1      0.1 15969 4342.7
## + Special      1      0.1 15969 4342.7
## + Jumping      1      0.0 15969 4342.8
## + GK.handling  1      0.0 15969 4342.8
## + Volleys      1      0.0 15969 4342.8
## + CM           1      0.0 15969 4342.8
## + LCM          1      0.0 15969 4342.8

```

```

## + RCM                1      0.0 15969 4342.8
## + Dribbling           1      0.0 15969 4342.8
## - Curve               1      6.1 15975 4342.9
## - LM                  1      6.2 15975 4342.9
## - Long.shots          1     12.0 15981 4346.9
## - LS                  1     23.5 15993 4354.6
## - Acceleration        1     24.4 15994 4355.2
## - Shot.power          1     29.9 15999 4358.9
## - Strength            1     33.1 16002 4361.0
## - Short.passing       1     39.4 16009 4365.2
## - ID                   1     58.0 16027 4377.8
## - Positioning         1     58.1 16027 4377.8
## - Ball.control        1     70.8 16040 4386.3
## - Reactions           1     78.2 16047 4391.3
## - Composure           1    125.7 16095 4423.1
## - Age                  1   2035.6 18005 5628.1
## - Potential           1   3745.6 19715 6603.1
## - X                    1  21866.6 37836 13608.2
##
## Step:  AIC=4338.93
## Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +
##      LM + LS + LWB + Acceleration + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Finishing + Free.kick.accuracy +
##      GK.diving + GK.kicking + GK.positioning + GK.reflexes + Heading.accuracy +
##      Interceptions + Long.passing + Long.shots + Marking + Positioning +
##      Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS    AIC
## - Heading.accuracy  1      0.4 15970 4337.2
## - Sprint.speed      1      0.4 15970 4337.2
## - Long.passing      1      0.4 15970 4337.2
## - Interceptions     1      0.5 15970 4337.2
## - LWB               1      0.5 15970 4337.2
## - Vision             1      0.7 15970 4337.4
## - Marking            1      0.9 15970 4337.5
## - CB                 1      1.0 15970 4337.6
## - Agility            1      1.3 15971 4337.8
## - GK.reflexes        1      1.3 15971 4337.8
## - Free.kick.accuracy 1      1.6 15971 4338.0
## - CDM                1      1.8 15971 4338.2
## - GK.diving          1      2.0 15971 4338.3
## - GK.kicking         1      2.7 15972 4338.7
## <none>                15969 4338.9
## - Crossing           1      3.2 15973 4339.1
## - Balance            1      3.6 15973 4339.4
## - Sliding.tackle     1      4.0 15973 4339.6
## - GK.positioning     1      4.0 15973 4339.6
## - Stamina            1      4.1 15973 4339.7
## - LB                 1      4.6 15974 4340.0
## - CF                 1      5.6 15975 4340.7
## - Finishing          1      5.7 15975 4340.8
## + LW                 1      0.2 15969 4340.8
## + RW                 1      0.2 15969 4340.8

```



```

## - Standing.tackle      1      5.8 15975 4340.8
## + Aggression           1      0.1 15969 4340.8
## + Penalties            1      0.1 15969 4340.9
## + Special              1      0.1 15969 4340.9
## + Jumping              1      0.1 15969 4340.9
## + Dribbling            1      0.0 15969 4340.9
## + GK.handling          1      0.0 15969 4340.9
## + CM                   1      0.0 15969 4340.9
## + LCM                  1      0.0 15969 4340.9
## + RCM                  1      0.0 15969 4340.9
## + Volleys              1      0.0 15969 4340.9
## - Curve                1      6.1 15976 4341.0
## - CAM                  1      6.6 15976 4341.4
## - LM                   1      8.0 15977 4342.3
## - Long.shots           1     12.6 15982 4345.4
## - LS                   1     23.3 15993 4352.6
## - Acceleration         1     24.2 15994 4353.2
## - Shot.power           1     30.3 16000 4357.3
## - Strength             1     33.7 16003 4359.5
## - Short.passing        1     42.2 16012 4365.3
## - ID                   1     58.0 16027 4375.9
## - Positioning          1     58.8 16028 4376.4
## - Ball.control         1     72.0 16041 4385.3
## - Reactions            1     80.7 16050 4391.1
## - Composure            1    125.7 16095 4421.2
## - Age                  1   2036.5 18006 5626.7
## - Potential            1   3745.5 19715 6601.1
## - X                    1  21866.5 37836 13606.3
##
## Step: AIC=4337.2
## Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +
##      LM + LS + LWB + Acceleration + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Finishing + Free.kick.accuracy +
##      GK.diving + GK.kicking + GK.positioning + GK.reflexes + Interceptions +
##      Long.passing + Long.shots + Marking + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS    AIC
## - Sprint.speed      1      0.2 15970 4335.3
## - Interceptions     1      0.3 15970 4335.4
## - LWB               1      0.5 15970 4335.5
## - Marking           1      0.6 15970 4335.6
## - CB               1      0.6 15970 4335.6
## - Long.passing      1      1.0 15971 4335.9
## - Vision            1      1.2 15971 4336.0
## - GK.reflexes       1      1.3 15971 4336.1
## - Agility           1      1.3 15971 4336.1
## - Free.kick.accuracy 1      1.6 15971 4336.3
## - GK.diving         1      2.0 15972 4336.6
## - GK.kicking        1      2.7 15972 4337.0
## - CDM              1      2.9 15973 4337.1
## <none>              15970 4337.2
## - Crossing          1      3.1 15973 4337.3

```

## - Balance	1	3.9	15974	4337.9
## - GK.positioning	1	4.0	15974	4337.9
## - Stamina	1	4.1	15974	4337.9
## - Sliding.tackle	1	5.3	15975	4338.7
## - Standing.tackle	1	5.4	15975	4338.8
## + Heading.accuracy	1	0.4	15969	4338.9
## + Aggression	1	0.3	15969	4339.0
## + LW	1	0.3	15970	4339.0
## + RW	1	0.3	15970	4339.0
## - CF	1	5.7	15975	4339.0
## + Special	1	0.2	15970	4339.1
## + Dribbling	1	0.1	15970	4339.1
## + Volleys	1	0.1	15970	4339.1
## + Penalties	1	0.1	15970	4339.1
## + CM	1	0.0	15970	4339.2
## + LCM	1	0.0	15970	4339.2
## + RCM	1	0.0	15970	4339.2
## + GK.handling	1	0.0	15970	4339.2
## + Jumping	1	0.0	15970	4339.2
## - LB	1	6.2	15976	4339.4
## - Curve	1	6.3	15976	4339.5
## - CAM	1	7.3	15977	4340.1
## - LM	1	9.0	15979	4341.2
## - Finishing	1	13.8	15984	4344.5
## - Long.shots	1	14.3	15984	4344.8
## - Acceleration	1	24.5	15994	4351.7
## - Short.passing	1	43.1	16013	4364.1
## - Strength	1	49.1	16019	4368.2
## - LS	1	57.1	16027	4373.5
## - ID	1	58.2	16028	4374.3
## - Shot.power	1	59.0	16029	4374.8
## - Ball.control	1	72.6	16042	4383.9
## - Reactions	1	88.2	16058	4394.4
## - Positioning	1	90.0	16060	4395.6
## - Composure	1	125.3	16095	4419.2
## - Age	1	2038.5	18008	5626.2
## - Potential	1	3750.7	19720	6602.2
## - X	1	21891.5	37861	13611.5

##

Step: AIC=4335.31

Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +

LM + LS + LWB + Acceleration + Agility + Balance + Ball.control +

Composure + Crossing + Curve + Finishing + Free.kick.accuracy +

GK.diving + GK.kicking + GK.positioning + GK.reflexes + Interceptions +

Long.passing + Long.shots + Marking + Positioning + Reactions +

Short.passing + Shot.power + Sliding.tackle + Stamina + Standing.tackle +

Strength + Vision

##

##	Df	Sum of Sq	RSS	AIC
## - Interceptions	1	0.2	15970	4333.4
## - LWB	1	0.3	15970	4333.5
## - Marking	1	0.5	15970	4333.6
## - CB	1	0.7	15971	4333.8
## - Long.passing	1	0.9	15971	4333.9

```

## - GK.reflexes      1      1.3 15971 4334.2
## - Vision           1      1.3 15971 4334.2
## - Agility          1      1.5 15971 4334.3
## - Free.kick.accuracy 1      1.6 15972 4334.4
## - GK.diving        1      2.0 15972 4334.7
## - GK.kicking       1      2.7 15973 4335.1
## - CDM              1      2.8 15973 4335.2
## <none>              15970 4335.3
## - Balance          1      3.9 15974 4336.0
## - GK.positioning   1      4.0 15974 4336.0
## - Crossing         1      4.5 15974 4336.3
## - CF              1      5.6 15976 4337.1
## + Dribbling        1      0.3 15970 4337.1
## + Aggression       1      0.3 15970 4337.1
## + LW              1      0.2 15970 4337.1
## + RW              1      0.2 15970 4337.1
## + Sprint.speed     1      0.2 15970 4337.2
## + Heading.accuracy 1      0.2 15970 4337.2
## + Special          1      0.1 15970 4337.2
## + Volleys          1      0.1 15970 4337.2
## + Penalties        1      0.1 15970 4337.2
## + CM              1      0.1 15970 4337.3
## + LCM             1      0.1 15970 4337.3
## + RCM             1      0.1 15970 4337.3
## + GK.handling      1      0.0 15970 4337.3
## + Jumping          1      0.0 15970 4337.3
## - Stamina          1      6.1 15976 4337.4
## - Curve            1      6.3 15976 4337.6
## - Standing.tackle  1      7.0 15977 4338.0
## - CAM             1      7.8 15978 4338.5
## - LM              1      8.8 15979 4339.2
## - LB              1     12.0 15982 4341.4
## - Sliding.tackle   1     13.6 15984 4342.4
## - Finishing        1     13.6 15984 4342.5
## - Long.shots       1     14.1 15984 4342.8
## - Acceleration     1     25.8 15996 4350.7
## - Strength         1     51.0 16021 4367.6
## - Short.passing    1     54.4 16024 4369.9
## - LS              1     57.2 16027 4371.7
## - ID              1     58.2 16028 4372.4
## - Shot.power       1     59.1 16029 4373.0
## - Positioning      1     90.6 16061 4394.1
## - Ball.control     1     91.8 16062 4394.9
## - Composure        1    125.3 16095 4417.3
## - Reactions        1    138.9 16109 4426.4
## - Age             1   2038.6 18009 5624.3
## - Potential        1   3751.8 19722 6600.9
## - X               1  21900.6 37871 13612.1
##
## Step:  AIC=4333.41
## Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +
##      LM + LS + LWB + Acceleration + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Finishing + Free.kick.accuracy +
##      GK.diving + GK.kicking + GK.positioning + GK.reflexes + Long.passing +

```

```

## Long.shots + Marking + Positioning + Reactions + Short.passing +
## Shot.power + Sliding.tackle + Stamina + Standing.tackle +
## Strength + Vision
##
##          Df Sum of Sq  RSS    AIC
## - LWB          1      0.2 15970  4331.5
## - Marking       1      0.3 15970  4331.6
## - CB            1      0.8 15971  4331.9
## - Long.passing  1      0.8 15971  4332.0
## - Vision        1      1.3 15971  4332.3
## - GK.reflexes   1      1.3 15971  4332.3
## - Agility       1      1.4 15972  4332.4
## - Free.kick.accuracy 1      1.6 15972  4332.5
## - GK.diving     1      2.0 15972  4332.8
## - GK.kicking    1      2.7 15973  4333.2
## - CDM           1      2.8 15973  4333.3
## <none>                15970  4333.4
## - Balance       1      4.0 15974  4334.1
## - GK.positioning 1      4.0 15974  4334.1
## - Crossing      1      4.9 15975  4334.7
## + Aggression    1      0.4 15970  4335.1
## - CF            1      5.5 15976  4335.1
## + LW            1      0.3 15970  4335.2
## + RW            1      0.3 15970  4335.2
## + Heading.accuracy 1      0.2 15970  4335.3
## + Special       1      0.2 15970  4335.3
## + Interceptions 1      0.2 15970  4335.3
## + Volleys       1      0.1 15970  4335.4
## + Dribbling     1      0.1 15970  4335.4
## + Penalties     1      0.1 15970  4335.4
## + GK.handling   1      0.0 15970  4335.4
## + Jumping       1      0.0 15970  4335.4
## + CM            1      0.0 15970  4335.4
## + LCM           1      0.0 15970  4335.4
## + RCM           1      0.0 15970  4335.4
## + Sprint.speed  1      0.0 15970  4335.4
## - Curve         1      6.3 15976  4335.6
## - CAM           1      7.7 15978  4336.6
## - LM            1      9.6 15980  4337.9
## - Stamina       1     11.4 15982  4339.1
## - Standing.tackle 1     11.6 15982  4339.2
## - Finishing     1     13.8 15984  4340.7
## - Long.shots    1     14.0 15984  4340.8
## - LB            1     14.8 15985  4341.3
## - Acceleration  1     29.4 16000  4351.2
## - Sliding.tackle 1     33.5 16004  4354.0
## - Strength      1     51.5 16022  4366.0
## - LS            1     57.8 16028  4370.2
## - ID            1     58.3 16028  4370.5
## - Shot.power    1     59.2 16029  4371.2
## - Short.passing  1     80.2 16050  4385.2
## - Positioning   1     96.5 16067  4396.1
## - Ball.control  1    103.1 16073  4400.5
## - Composure     1    125.2 16095  4415.3

```

```

## - Reactions          1      191.2 16161  4459.3
## - Age                1      2039.7 18010  5623.0
## - Potential          1      3752.6 19723  6599.3
## - X                  1     21902.8 37873 13610.8
##
## Step:  AIC=4331.54
## Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +
##      LM + LS + Acceleration + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Finishing + Free.kick.accuracy +
##      GK.diving + GK.kicking + GK.positioning + GK.reflexes + Long.passing +
##      Long.shots + Marking + Positioning + Reactions + Short.passing +
##      Shot.power + Sliding.tackle + Stamina + Standing.tackle +
##      Strength + Vision
##
##              Df Sum of Sq  RSS      AIC
## - Marking      1          0.3 15971  4329.7
## - CB           1          0.7 15971  4330.0
## - Long.passing  1          1.3 15972  4330.4
## - GK.reflexes  1          1.3 15972  4330.4
## - Agility      1          1.4 15972  4330.5
## - Free.kick.accuracy 1          1.6 15972  4330.6
## - Vision       1          1.9 15972  4330.8
## - GK.diving    1          2.0 15972  4330.9
## - GK.kicking   1          2.7 15973  4331.4
## <none>                  15970  4331.5
## - CDM          1          3.9 15974  4332.2
## - Balance      1          4.0 15974  4332.2
## - GK.positioning 1          4.0 15974  4332.2
## - Crossing     1          4.8 15975  4332.8
## - CF           1          5.4 15976  4333.2
## + LW           1          0.3 15970  4333.3
## + RW           1          0.3 15970  4333.3
## + Heading.accuracy 1          0.3 15970  4333.3
## + Aggression   1          0.2 15970  4333.4
## + Special      1          0.2 15970  4333.4
## + LWB          1          0.2 15970  4333.4
## + RWB          1          0.2 15970  4333.4
## + Volleys      1          0.1 15970  4333.5
## + Dribbling    1          0.1 15970  4333.5
## + Penalties    1          0.1 15970  4333.5
## + GK.handling  1          0.0 15970  4333.5
## + CM           1          0.0 15970  4333.5
## + LCM          1          0.0 15970  4333.5
## + RCM          1          0.0 15970  4333.5
## + Interceptions 1          0.0 15970  4333.5
## + Jumping      1          0.0 15970  4333.5
## + Sprint.speed  1          0.0 15970  4333.5
## - Curve        1          6.3 15977  4333.8
## - CAM          1          7.9 15978  4334.9
## - LM           1         10.3 15981  4336.5
## - Stamina      1         11.4 15982  4337.2
## - Standing.tackle 1         11.9 15982  4337.5
## - Finishing    1         13.7 15984  4338.8
## - Long.shots   1         13.9 15984  4338.9

```

```
## - LB          1      24.3 15995 4345.9
## - Acceleration 1      29.5 16000 4349.4
## - Sliding.tackle 1     34.5 16005 4352.7
## - Strength     1     51.4 16022 4364.1
## - ID           1     58.2 16029 4368.6
## - Shot.power   1     59.9 16030 4369.7
## - LS          1     60.3 16031 4370.0
## - Short.passing 1     82.6 16053 4385.0
## - Positioning  1     97.2 16067 4394.7
## - Ball.control 1    107.9 16078 4401.9
## - Composure    1    125.2 16095 4413.4
## - Reactions    1    192.0 16162 4458.0
## - Age          1   2042.1 18012 5622.6
## - Potential    1   3753.2 19724 6597.8
## - X           1  21902.7 37873 13608.8
```

```
##
```

```
## Step: AIC=4329.74
```

```
## Overall ~ X + Age + Potential + CAM + CB + CDM + CF + ID + LB +
##      LM + LS + Acceleration + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Finishing + Free.kick.accuracy +
##      GK.diving + GK.kicking + GK.positioning + GK.reflexes + Long.passing +
##      Long.shots + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Stamina + Standing.tackle + Strength + Vision
```

```
##
```

	Df	Sum of Sq	RSS	AIC
## - CB	1	0.5	15971	4328.1
## - GK.reflexes	1	1.3	15972	4328.6
## - Agility	1	1.4	15972	4328.7
## - Long.passing	1	1.4	15972	4328.7
## - Free.kick.accuracy	1	1.5	15972	4328.8
## - Vision	1	1.8	15972	4328.9
## - GK.diving	1	2.0	15973	4329.1
## - GK.kicking	1	2.7	15973	4329.5
## <none>			15971	4329.7
## - GK.positioning	1	4.0	15975	4330.4
## - Balance	1	4.1	15975	4330.5
## - CDM	1	4.3	15975	4330.6
## - Crossing	1	4.6	15975	4330.9
## - CF	1	5.4	15976	4331.4
## + Aggression	1	0.4	15970	4331.4
## + LW	1	0.3	15970	4331.5
## + RW	1	0.3	15970	4331.5
## + Marking	1	0.3	15970	4331.5
## + Special	1	0.3	15970	4331.6
## + Heading.accuracy	1	0.2	15970	4331.6
## + LWB	1	0.2	15970	4331.6
## + RWB	1	0.2	15970	4331.6
## + Volleys	1	0.1	15971	4331.7
## + CM	1	0.1	15971	4331.7
## + LCM	1	0.1	15971	4331.7
## + RCM	1	0.1	15971	4331.7
## + Penalties	1	0.1	15971	4331.7
## + Interceptions	1	0.1	15971	4331.7
## + Dribbling	1	0.1	15971	4331.7

```

## + GK.handling      1      0.0 15971 4331.7
## + Sprint.speed      1      0.0 15971 4331.7
## + Jumping           1      0.0 15971 4331.7
## - Curve             1      6.3 15977 4331.9
## - CAM               1      7.8 15978 4333.0
## - LM                1     10.2 15981 4334.6
## - Stamina           1     11.1 15982 4335.2
## - Standing.tackle   1     11.6 15982 4335.6
## - Finishing          1     13.6 15984 4336.9
## - Long.shots         1     13.7 15984 4337.0
## - LB                1     27.1 15998 4346.0
## - Acceleration       1     29.2 16000 4347.4
## - Sliding.tackle     1     35.5 16006 4351.6
## - Strength           1     51.1 16022 4362.1
## - ID                1     58.5 16029 4367.0
## - Shot.power         1     60.4 16031 4368.3
## - LS                1     62.7 16033 4369.9
## - Short.passing      1     82.3 16053 4383.0
## - Positioning        1     97.6 16068 4393.2
## - Ball.control       1    108.7 16079 4400.6
## - Composure          1    125.6 16096 4411.9
## - Reactions          1    191.8 16162 4456.0
## - Age                1   2042.9 18013 5621.3
## - Potential          1   3753.3 19724 6596.0
## - X                  1  21914.2 37885 13610.1
##
## Step: AIC=4328.06
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Agility + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + Free.kick.accuracy + GK.diving +
##      GK.kicking + GK.positioning + GK.reflexes + Long.passing +
##      Long.shots + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS    AIC
## - Agility      1      1.3 15972 4326.9
## - GK.reflexes   1      1.3 15972 4326.9
## - Free.kick.accuracy 1      1.6 15973 4327.2
## - Vision        1      1.8 15973 4327.3
## - GK.diving     1      2.0 15973 4327.4
## - Long.passing  1      2.6 15974 4327.8
## - GK.kicking    1      2.7 15974 4327.9
## <none>                15971 4328.1
## - GK.positioning 1      4.0 15975 4328.8
## - Balance        1      4.4 15975 4329.0
## - Crossing       1      4.5 15976 4329.1
## + Aggression     1      0.8 15970 4329.5
## + Special         1      0.6 15970 4329.6
## - CF             1      5.4 15976 4329.7
## + CB             1      0.5 15971 4329.7
## + LCB            1      0.5 15971 4329.7
## + RCB            1      0.5 15971 4329.7
## + LW             1      0.3 15971 4329.9
## + RW             1      0.3 15971 4329.9

```

```

## + Jumping          1      0.1 15971  4330.0
## + Marking          1      0.1 15971  4330.0
## + LWB              1      0.1 15971  4330.0
## + RWB              1      0.1 15971  4330.0
## + Penalties        1      0.1 15971  4330.0
## + Dribbling         1      0.0 15971  4330.0
## + GK.handling       1      0.0 15971  4330.0
## + CM               1      0.0 15971  4330.0
## + LCM              1      0.0 15971  4330.0
## + RCM              1      0.0 15971  4330.0
## + Volleys          1      0.0 15971  4330.0
## + Heading.accuracy  1      0.0 15971  4330.1
## + Interceptions     1      0.0 15971  4330.1
## + Sprint.speed      1      0.0 15971  4330.1
## - Curve            1      6.1 15977  4330.2
## - CAM              1      7.5 15979  4331.1
## - LM               1      9.8 15981  4332.7
## - Standing.tackle  1     11.1 15982  4333.6
## - Long.shots        1     13.3 15984  4335.0
## - CDM              1     14.2 15985  4335.6
## - Stamina          1     14.9 15986  4336.1
## - Finishing         1     15.6 15987  4336.5
## - LB               1     26.6 15998  4344.0
## - Acceleration      1     30.9 16002  4346.8
## - Sliding.tackle    1     39.8 16011  4352.8
## - Strength          1     51.7 16023  4360.8
## - ID               1     58.8 16030  4365.6
## - Shot.power        1     72.8 16044  4374.9
## - Short.passing     1     95.2 16066  4389.9
## - LS               1     99.0 16070  4392.5
## - Positioning       1    108.2 16079  4398.6
## - Composure         1    125.8 16097  4410.4
## - Ball.control      1    127.0 16098  4411.2
## - Reactions         1    229.6 16201  4479.4
## - Age              1   2043.1 18014  5619.6
## - Potential         1   3753.9 19725  6594.6
## - X                1  21983.6 37955 13627.9
##
## Step:  AIC=4326.93
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + Free.kick.accuracy + GK.diving +
##      GK.kicking + GK.positioning + GK.reflexes + Long.passing +
##      Long.shots + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Stamina + Standing.tackle + Strength + Vision
##
##
##              Df Sum of Sq  RSS    AIC
## - Vision      1      1.0 15973  4325.6
## - GK.reflexes  1      1.3 15974  4325.8
## - Free.kick.accuracy  1      1.6 15974  4326.0
## - GK.diving    1      2.1 15974  4326.3
## - Long.passing  1      2.3 15975  4326.5
## - GK.kicking   1      2.7 15975  4326.7
## <none>                15972  4326.9

```


## - Balance	1	3.4	15976	4327.3
## - GK.positioning	1	4.0	15976	4327.7
## - CF	1	4.6	15977	4328.0
## + Agility	1	1.3	15971	4328.1
## - Crossing	1	5.2	15978	4328.4
## + Aggression	1	0.7	15972	4328.5
## + CB	1	0.4	15972	4328.7
## + LCB	1	0.4	15972	4328.7
## + RCB	1	0.4	15972	4328.7
## + Dribbling	1	0.3	15972	4328.7
## + Penalties	1	0.1	15972	4328.9
## + LWB	1	0.1	15972	4328.9
## + RWB	1	0.1	15972	4328.9
## + CM	1	0.1	15972	4328.9
## + LCM	1	0.1	15972	4328.9
## + RCM	1	0.1	15972	4328.9
## + Special	1	0.1	15972	4328.9
## + Marking	1	0.1	15972	4328.9
## + Jumping	1	0.1	15972	4328.9
## + GK.handling	1	0.0	15972	4328.9
## + Volleys	1	0.0	15972	4328.9
## - Curve	1	5.9	15978	4328.9
## + Sprint.speed	1	0.0	15972	4328.9
## + LW	1	0.0	15972	4328.9
## + RW	1	0.0	15972	4328.9
## + Interceptions	1	0.0	15972	4328.9
## + Heading.accuracy	1	0.0	15972	4328.9
## - CAM	1	6.3	15979	4329.2
## - Standing.tackle	1	10.8	15983	4332.2
## - LM	1	11.8	15984	4332.9
## - CDM	1	14.8	15987	4334.9
## - Finishing	1	16.0	15988	4335.7
## - Long.shots	1	16.1	15988	4335.8
## - Stamina	1	17.0	15989	4336.4
## - LB	1	27.8	16000	4343.6
## - Acceleration	1	35.2	16008	4348.6
## - Sliding.tackle	1	41.2	16014	4352.6
## - Strength	1	51.2	16024	4359.4
## - ID	1	58.2	16031	4364.0
## - Shot.power	1	71.6	16044	4373.0
## - Short.passing	1	98.6	16071	4391.0
## - LS	1	99.1	16071	4391.4
## - Positioning	1	110.3	16083	4398.9
## - Ball.control	1	126.1	16098	4409.4
## - Composure	1	126.3	16099	4409.6
## - Reactions	1	228.4	16201	4477.5
## - Age	1	2044.2	18017	5619.1
## - Potential	1	3752.7	19725	6592.7
## - X	1	21990.8	37963	13628.3

##

Step: AIC=4325.58

Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +

LS + Acceleration + Balance + Ball.control + Composure +

Crossing + Curve + Finishing + Free.kick.accuracy + GK.diving +

```

##      GK.kicking + GK.positioning + GK.reflexes + Long.passing +
##      Long.shots + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Stamina + Standing.tackle + Strength
##
##      Df Sum of Sq   RSS   AIC
## - GK.reflexes      1      1.3 15975 4324.5
## - Free.kick.accuracy 1      1.8 15975 4324.8
## - GK.diving        1      2.1 15975 4325.0
## - Long.passing     1      2.1 15975 4325.0
## - GK.kicking       1      2.6 15976 4325.4
## <none>                15973 4325.6
## - GK.positioning   1      4.0 15977 4326.3
## - Balance          1      4.1 15977 4326.3
## + Dribbling        1      1.2 15972 4326.8
## - CF              1      4.8 15978 4326.8
## + Vision           1      1.0 15972 4326.9
## + Aggression       1      0.9 15972 4327.0
## + Agility          1      0.5 15973 4327.3
## + CB              1      0.4 15973 4327.3
## + LCB             1      0.4 15973 4327.3
## + RCB             1      0.4 15973 4327.3
## + LWB             1      0.4 15973 4327.3
## + RWB             1      0.4 15973 4327.3
## + LW              1      0.3 15973 4327.4
## + RW              1      0.3 15973 4327.4
## + Heading.accuracy 1      0.1 15973 4327.5
## + CM              1      0.1 15973 4327.5
## + LCM             1      0.1 15973 4327.5
## + RCM             1      0.1 15973 4327.5
## + Special         1      0.1 15973 4327.5
## + Penalties       1      0.1 15973 4327.5
## + Jumping         1      0.1 15973 4327.5
## + Marking         1      0.0 15973 4327.5
## + Interceptions   1      0.0 15973 4327.6
## + Sprint.speed    1      0.0 15973 4327.6
## + GK.handling     1      0.0 15973 4327.6
## + Volleys         1      0.0 15973 4327.6
## - Curve           1      6.0 15979 4327.6
## - CAM             1      6.2 15980 4327.8
## - Crossing        1      7.0 15980 4328.3
## - Standing.tackle 1     10.6 15984 4330.7
## - CDM             1     14.0 15987 4333.0
## - LM             1     16.1 15989 4334.4
## - Finishing       1     17.1 15990 4335.1
## - Stamina         1     19.8 15993 4336.9
## - Long.shots      1     23.4 15997 4339.3
## - LB             1     27.1 16000 4341.8
## - Acceleration    1     34.4 16008 4346.7
## - Sliding.tackle  1     41.3 16015 4351.3
## - Strength        1     51.9 16025 4358.4
## - ID             1     58.3 16032 4362.7
## - Shot.power      1     70.8 16044 4371.1
## - LS             1     98.3 16072 4389.5
## - Short.passing   1    115.5 16089 4401.0

```

```

## - Positioning      1      121.6 16095  4405.1
## - Composure       1      128.1 16101  4409.4
## - Ball.control     1      153.7 16127  4426.5
## - Reactions        1      232.1 16205  4478.6
## - Age              1     2046.2 18020  5618.9
## - Potential        1     3757.2 19731  6593.6
## - X                 1    21990.1 37963 13626.4
##
## Step:  AIC=4324.47
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + Free.kick.accuracy + GK.diving +
##      GK.kicking + GK.positioning + Long.passing + Long.shots +
##      Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Stamina + Standing.tackle + Strength
##
##              Df Sum of Sq  RSS    AIC
## - Free.kick.accuracy  1        1.7 15976  4323.6
## - GK.diving           1        1.8 15977  4323.7
## - Long.passing        1        2.1 15977  4323.9
## - GK.kicking          1        2.3 15977  4324.0
## <none>                  15975  4324.5
## - Balance             1        4.0 15979  4325.2
## - GK.positioning      1        4.4 15979  4325.4
## + GK.reflexes         1        1.3 15973  4325.6
## + Dribbling           1        1.2 15973  4325.7
## - CF                  1        4.8 15979  4325.7
## + Vision              1        1.0 15974  4325.8
## + Aggression          1        0.9 15974  4325.9
## + Agility             1        0.5 15974  4326.1
## + LWB                 1        0.4 15974  4326.2
## + RWB                 1        0.4 15974  4326.2
## + CB                  1        0.4 15974  4326.2
## + LCB                 1        0.4 15974  4326.2
## + RCB                 1        0.4 15974  4326.2
## + LW                  1        0.3 15974  4326.3
## + RW                  1        0.3 15974  4326.3
## + Special             1        0.2 15974  4326.3
## + Heading.accuracy    1        0.2 15975  4326.4
## + CM                  1        0.1 15975  4326.4
## + LCM                 1        0.1 15975  4326.4
## + RCM                 1        0.1 15975  4326.4
## + Penalties          1        0.1 15975  4326.4
## + GK.handling         1        0.1 15975  4326.4
## + Jumping             1        0.1 15975  4326.4
## + Marking             1        0.0 15975  4326.4
## + Sprint.speed        1        0.0 15975  4326.5
## + Interceptions       1        0.0 15975  4326.5
## + Volleys             1        0.0 15975  4326.5
## - Curve               1        6.0 15981  4326.5
## - CAM                 1        6.3 15981  4326.7
## - Crossing            1        6.9 15982  4327.1
## - Standing.tackle    1       10.6 15985  4329.6
## - CDM                 1       14.0 15989  4331.9

```

```

## - LM                1      15.9 15991 4333.1
## - Finishing          1      17.1 15992 4334.0
## - Stamina            1      19.6 15994 4335.6
## - Long.shots         1      23.4 15998 4338.2
## - LB                 1      27.2 16002 4340.7
## - Acceleration       1      34.1 16009 4345.4
## - Sliding.tackle     1      41.4 16016 4350.3
## - Strength           1      51.8 16026 4357.3
## - ID                 1      58.6 16033 4361.8
## - Shot.power         1      70.7 16045 4369.9
## - LS                 1      98.4 16073 4388.4
## - Short.passing      1     115.3 16090 4399.8
## - Positioning        1     121.4 16096 4403.8
## - Composure          1     128.6 16103 4408.6
## - Ball.control       1     153.7 16128 4425.4
## - Reactions          1     232.1 16207 4477.5
## - Age                1    2048.5 18023 5619.0
## - Potential          1    3770.6 19745 6599.7
## - X                  1   21998.4 37973 13627.1
##
## Step:  AIC=4323.64
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + GK.diving + GK.kicking + GK.positioning +
##      Long.passing + Long.shots + Positioning + Reactions + Short.passing +
##      Shot.power + Sliding.tackle + Stamina + Standing.tackle +
##      Strength
##
##              Df Sum of Sq  RSS    AIC
## - GK.diving    1      1.9 15978 4322.9
## - Long.passing  1      2.3 15979 4323.2
## - GK.kicking    1      2.4 15979 4323.2
## <none>          1      2.4 15979 4323.2
## - Balance       1      4.0 15980 4324.4
## + Free.kick.accuracy 1      1.7 15975 4324.5
## - GK.positioning 1      4.3 15981 4324.5
## - Curve          1      4.3 15981 4324.6
## + Dribbling      1      1.3 15975 4324.8
## + GK.reflexes    1      1.3 15975 4324.8
## + Vision         1      1.1 15975 4324.9
## - CF             1      4.9 15981 4324.9
## + Aggression     1      0.9 15975 4325.0
## + CB             1      0.5 15976 4325.3
## + LCB            1      0.5 15976 4325.3
## + RCB            1      0.5 15976 4325.3
## + LWB            1      0.4 15976 4325.4
## + RWB            1      0.4 15976 4325.4
## + Agility        1      0.4 15976 4325.4
## + LW             1      0.4 15976 4325.4
## + RW             1      0.4 15976 4325.4
## + CM             1      0.2 15976 4325.5
## + LCM            1      0.2 15976 4325.5
## + RCM            1      0.2 15976 4325.5
## + Heading.accuracy 1      0.1 15976 4325.5

```

```

## + Jumping          1      0.1 15976 4325.6
## + Special          1      0.1 15976 4325.6
## + GK.handling      1      0.0 15976 4325.6
## + Sprint.speed     1      0.0 15976 4325.6
## + Marking          1      0.0 15976 4325.6
## + Interceptions    1      0.0 15976 4325.6
## + Penalties        1      0.0 15976 4325.6
## + Volleys          1      0.0 15976 4325.6
## - CAM              1      6.0 15982 4325.6
## - Crossing         1      7.5 15984 4326.7
## - Standing.tackle  1     10.8 15987 4328.9
## - CDM              1     13.9 15990 4331.0
## - LM               1     16.5 15993 4332.7
## - Finishing        1     16.6 15993 4332.8
## - Stamina          1     19.8 15996 4335.0
## - Long.shots       1     22.2 15999 4336.6
## - LB               1     27.0 16003 4339.8
## - Acceleration     1     34.4 16011 4344.7
## - Sliding.tackle   1     41.4 16018 4349.5
## - Strength         1     51.5 16028 4356.3
## - ID               1     58.5 16035 4360.9
## - Shot.power       1     69.6 16046 4368.4
## - LS               1     97.3 16074 4386.9
## - Short.passing    1    114.9 16091 4398.7
## - Positioning      1    121.0 16097 4402.7
## - Composure        1    128.6 16105 4407.8
## - Ball.control     1    153.4 16130 4424.3
## - Reactions        1    233.1 16210 4477.3
## - Age              1   2054.9 18031 5621.9
## - Potential        1   3770.9 19747 6598.8
## - X                1  22016.9 37993 13630.9
##
## Step:  AIC=4322.9
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + GK.kicking + GK.positioning +
##      Long.passing + Long.shots + Positioning + Reactions + Short.passing +
##      Shot.power + Sliding.tackle + Stamina + Standing.tackle +
##      Strength
##
##              Df Sum of Sq  RSS    AIC
## - Long.passing    1      2.3 15981 4322.4
## - GK.kicking      1      2.6 15981 4322.7
## <none>                        15978 4322.9
## - GK.positioning  1      3.9 15982 4323.5
## - Balance         1      4.0 15982 4323.6
## + GK.diving       1      1.9 15976 4323.6
## + Free.kick.accuracy 1      1.8 15977 4323.7
## - Curve           1      4.4 15983 4323.8
## + Dribbling       1      1.3 15977 4324.0
## + GK.reflexes     1      1.1 15977 4324.2
## + Vision          1      1.1 15977 4324.2
## - CF              1      4.9 15983 4324.2
## + Aggression      1      0.9 15977 4324.3

```

```

## + CB          1      0.5 15978 4324.6
## + LCB          1      0.5 15978 4324.6
## + RCB          1      0.5 15978 4324.6
## + Agility      1      0.5 15978 4324.6
## + LWB          1      0.4 15978 4324.6
## + RWB          1      0.4 15978 4324.6
## + LW           1      0.3 15978 4324.7
## + RW           1      0.3 15978 4324.7
## + Special      1      0.2 15978 4324.7
## + CM           1      0.1 15978 4324.8
## + LCM          1      0.1 15978 4324.8
## + RCM          1      0.1 15978 4324.8
## + Heading.accuracy 1      0.1 15978 4324.8
## + Jumping      1      0.1 15978 4324.9
## + Marking      1      0.0 15978 4324.9
## + Sprint.speed 1      0.0 15978 4324.9
## + Interceptions 1      0.0 15978 4324.9
## + GK.handling  1      0.0 15978 4324.9
## - CAM          1      5.9 15984 4324.9
## + Penalties    1      0.0 15978 4324.9
## + Volleys      1      0.0 15978 4324.9
## - Crossing     1      7.7 15986 4326.1
## - Standing.tackle 1    10.9 15989 4328.2
## - CDM          1     13.8 15992 4330.1
## - LM           1     16.5 15995 4332.0
## - Finishing    1     16.6 15995 4332.1
## - Stamina      1     19.8 15998 4334.2
## - Long.shots   1     22.4 16001 4336.0
## - LB           1     26.8 16005 4338.9
## - Acceleration 1     34.4 16013 4344.0
## - Sliding.tackle 1    41.4 16020 4348.7
## - Strength     1     51.6 16030 4355.6
## - ID           1     58.2 16036 4359.9
## - Shot.power   1     69.9 16048 4367.8
## - LS          1     97.5 16076 4386.3
## - Short.passing 1    114.9 16093 4397.9
## - Positioning  1    121.7 16100 4402.5
## - Composure    1    128.2 16106 4406.8
## - Ball.control 1    152.7 16131 4423.1
## - Reactions    1    233.1 16211 4476.5
## - Age          1   2053.6 18032 5620.2
## - Potential    1   3769.0 19747 6596.8
## - X            1  22033.3 38012 13634.0
##
## Step:  AIC=4322.45
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + GK.kicking + GK.positioning +
##      Long.shots + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Stamina + Standing.tackle + Strength
##
##              Df Sum of Sq  RSS    AIC
## - GK.kicking    1      2.6 15983 4322.2
## <none>              15981 4322.4

```

## - CF	1	3.0	15984	4322.5
## + Dribbling	1	2.3	15978	4322.9
## + Long.passing	1	2.3	15978	4322.9
## + Aggression	1	2.3	15978	4322.9
## - GK.positioning	1	3.9	15985	4323.1
## + Free.kick.accuracy	1	2.0	15979	4323.1
## + GK.diving	1	1.8	15979	4323.2
## + CB	1	1.6	15979	4323.3
## + LCB	1	1.6	15979	4323.3
## + RCB	1	1.6	15979	4323.3
## - Curve	1	4.3	15985	4323.4
## - Balance	1	4.4	15985	4323.4
## + CM	1	1.5	15979	4323.4
## + LCM	1	1.5	15979	4323.4
## + RCM	1	1.5	15979	4323.4
## + LWB	1	1.1	15979	4323.7
## + RWB	1	1.1	15979	4323.7
## + GK.reflexes	1	1.1	15979	4323.7
## + LW	1	0.9	15980	4323.8
## + RW	1	0.9	15980	4323.8
## + Vision	1	0.8	15980	4323.9
## - CAM	1	5.5	15986	4324.1
## + Agility	1	0.4	15980	4324.2
## + Heading.accuracy	1	0.3	15980	4324.2
## + Interceptions	1	0.3	15980	4324.2
## + Sprint.speed	1	0.2	15980	4324.3
## + Special	1	0.2	15980	4324.3
## + Jumping	1	0.1	15980	4324.4
## + Marking	1	0.0	15981	4324.4
## + Volleys	1	0.0	15981	4324.4
## + GK.handling	1	0.0	15981	4324.4
## + Penalties	1	0.0	15981	4324.4
## - Crossing	1	6.7	15987	4325.0
## - Standing.tackle	1	10.0	15991	4327.2
## - CDM	1	11.8	15992	4328.4
## - LM	1	14.3	15995	4330.1
## - Finishing	1	16.7	15997	4331.7
## - Stamina	1	17.6	15998	4332.3
## - Long.shots	1	20.6	16001	4334.3
## - LB	1	25.0	16006	4337.2
## - Acceleration	1	35.0	16016	4343.9
## - Sliding.tackle	1	39.1	16020	4346.7
## - Strength	1	49.7	16030	4353.8
## - ID	1	58.7	16039	4359.9
## - Shot.power	1	67.7	16048	4365.9
## - LS	1	109.7	16090	4394.0
## - Short.passing	1	113.7	16094	4396.7
## - Positioning	1	122.9	16103	4402.8
## - Composure	1	128.8	16109	4406.7
## - Ball.control	1	150.8	16131	4421.4
## - Reactions	1	231.0	16212	4474.7
## - Age	1	2052.1	18033	5618.7
## - Potential	1	3766.8	19747	6594.8
## - X	1	22055.8	38036	13639.1

```

##
## Step: AIC=4322.2
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##     LS + Acceleration + Balance + Ball.control + Composure +
##     Crossing + Curve + Finishing + GK.positioning + Long.shots +
##     Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##     Stamina + Standing.tackle + Strength
##
##
##           Df Sum of Sq   RSS   AIC
## <none>                15983 4322.2
## - CF                  1     3.0 15986 4322.2
## + GK.kicking          1     2.6 15981 4322.4
## - GK.positioning      1     3.4 15987 4322.5
## + Aggression          1     2.3 15981 4322.7
## + Long.passing        1     2.3 15981 4322.7
## + Dribbling           1     2.3 15981 4322.7
## + GK.diving           1     2.1 15981 4322.8
## + Free.kick.accuracy  1     2.0 15981 4322.8
## - Curve               1     4.4 15988 4323.1
## + CB                  1     1.6 15982 4323.1
## + LCB                 1     1.6 15982 4323.1
## + RCB                 1     1.6 15982 4323.1
## + CM                  1     1.5 15982 4323.2
## + LCM                 1     1.5 15982 4323.2
## + RCM                 1     1.5 15982 4323.2
## - Balance             1     4.5 15988 4323.2
## + LWB                 1     1.1 15982 4323.5
## + RWB                 1     1.1 15982 4323.5
## + LW                  1     0.9 15982 4323.6
## + RW                  1     0.9 15982 4323.6
## + Vision              1     0.8 15982 4323.7
## + GK.reflexes         1     0.8 15982 4323.7
## + Special             1     0.5 15983 4323.9
## - CAM                 1     5.5 15989 4323.9
## + Heading.accuracy    1     0.4 15983 4323.9
## + Agility             1     0.4 15983 4324.0
## + Interceptions       1     0.3 15983 4324.0
## + Sprint.speed        1     0.1 15983 4324.1
## + Jumping             1     0.1 15983 4324.1
## + Volleys             1     0.0 15983 4324.2
## + Marking             1     0.0 15983 4324.2
## + Penalties           1     0.0 15983 4324.2
## + GK.handling         1     0.0 15983 4324.2
## - Crossing            1     6.6 15990 4324.7
## - Standing.tackle     1     9.8 15993 4326.8
## - CDM                 1    11.8 15995 4328.1
## - LM                  1    14.3 15997 4329.8
## - Finishing           1    16.6 16000 4331.3
## - Stamina             1    17.6 16001 4332.0
## - Long.shots          1    20.4 16004 4333.9
## - LB                  1    25.1 16008 4337.1
## - Acceleration        1    34.9 16018 4343.7
## - Sliding.tackle      1    39.2 16022 4346.6
## - Strength            1    49.3 16032 4353.3

```


## - ID	1	58.2	16041	4359.3
## - Shot.power	1	67.9	16051	4365.8
## - LS	1	109.8	16093	4393.8
## - Short.passing	1	113.5	16097	4396.2
## - Positioning	1	122.6	16106	4402.3
## - Composure	1	128.9	16112	4406.5
## - Ball.control	1	150.6	16134	4421.0
## - Reactions	1	230.5	16214	4474.1
## - Age	1	2049.9	18033	5616.9
## - Potential	1	3765.7	19749	6593.6
## - X	1	22114.8	38098	13654.4

```
step1$anova
```

```

## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## Overall ~ X + Age + Potential + Special + CAM + CB + CDM + CF +
##      CM + ID + LAM + LB + LCB + LCM + LDM + LF + LM + LS + LW +
##      LWB + RAM + RB + RCB + RCM + RDM + RF + RM + RS + RW + RWB +
##      ST + Acceleration + Aggression + Agility + Balance + Ball.control +
##      Composure + Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
##      GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##      Heading.accuracy + Interceptions + Jumping + Long.passing +
##      Long.shots + Marking + Penalties + Positioning + Reactions +
##      Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##      Stamina + Standing.tackle + Strength + Vision + Volleys
##
## Final Model:
## Overall ~ X + Age + Potential + CAM + CDM + CF + ID + LB + LM +
##      LS + Acceleration + Balance + Ball.control + Composure +
##      Crossing + Curve + Finishing + GK.positioning + Long.shots +
##      Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Stamina + Standing.tackle + Strength
##
##
##
##           Step Df    Deviance Resid. Df Resid. Dev      AIC
## 1
## 2      - Volleys  0 0.000000000      10697    15968.89 4354.588
## 3          - ST   0 0.000000000      10697    15968.89 4354.588
## 4          - RWB  0 0.000000000      10697    15968.89 4354.588
## 5          - RW   0 0.000000000      10697    15968.89 4354.588
## 6          - RS   0 0.000000000      10697    15968.89 4354.588
## 7          - RM   0 0.000000000      10697    15968.89 4354.588
## 8          - RF   0 0.000000000      10697    15968.89 4354.588
## 9          - RDM  0 0.000000000      10697    15968.89 4354.588
## 10         - RCM  0 0.000000000      10697    15968.89 4354.588
## 11         - RCB  0 0.000000000      10697    15968.89 4354.588
## 12         - RB   0 0.000000000      10697    15968.89 4354.588
## 13         - RAM  0 0.000000000      10697    15968.89 4354.588
## 14         - LF   0 0.000000000      10697    15968.89 4354.588
## 15         - LDM  0 0.000000000      10697    15968.89 4354.588
## 16         - LCM  0 0.000000000      10697    15968.89 4354.588
## 17         - LCB  0 0.000000000      10697    15968.89 4354.588
## 18         - LAM  0 0.000000000      10697    15968.89 4354.588
## 19      - Dribbling 1 0.003675131      10698    15968.90 4352.590
## 20      - Penalties 1 0.007207768      10699    15968.90 4350.595
## 21    - GK.handling 1 0.010354902      10700    15968.91 4348.602
## 22          - CM   1 0.014037679      10701    15968.93 4346.611
## 23      - Aggression 1 0.024993181      10702    15968.95 4344.628
## 24          - Jumping 1 0.154824474      10703    15969.11 4342.732
## 25          - Special 1 0.077619705      10704    15969.19 4340.785
## 26          - LW   1 0.214302589      10705    15969.40 4338.929
## 27    - Heading.accuracy 1 0.398625344      10706    15969.80 4337.197
## 28      - Sprint.speed 1 0.165347346      10707    15969.96 4335.308
## 29      - Interceptions 1 0.155737087      10708    15970.12 4333.413

```

## 30	- LWB	1	0.189665259	10709	15970.31	4331.541
## 31	- Marking	1	0.296187384	10710	15970.61	4329.740
## 32	- CB	1	0.480446026	10711	15971.09	4328.063
## 33	- Agility	1	1.295444299	10712	15972.38	4326.935
## 34	- Vision	1	0.959898198	10713	15973.34	4325.581
## 35	- GK.reflexes	1	1.323712409	10714	15974.66	4324.471
## 36	- Free.kick.accuracy	1	1.742562707	10715	15976.41	4323.643
## 37	- GK.diving	1	1.873096306	10716	15978.28	4322.903
## 38	- Long.passing	1	2.295140914	10717	15980.58	4322.447
## 39	- GK.kicking	1	2.604577224	10718	15983.18	4322.198

```
modellaic <- lm(formula = Overall ~ X + Age + Potential + CM + ID + LB + LM + LS + Acceleration
+
               Aggression + Balance + Ball.control + Composure + Crossing +
               Finishing + GK.positioning + Long.shots + Positioning + Reactions +
               Short.passing + Shot.power + Sliding.tackle + Stamina + Standing.tackle +
               Strength, data = train)
summary(modellaic)
```

```
##
## Call:
## lm(formula = Overall ~ X + Age + Potential + CM + ID + LB + LM +
##     LS + Acceleration + Aggression + Balance + Ball.control +
##     Composure + Crossing + Finishing + GK.positioning + Long.shots +
##     Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##     Stamina + Standing.tackle + Strength, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -7.2603 -0.7138 -0.0204  0.7070  9.7945
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   3.957e+01  5.803e-01  68.191 < 2e-16 ***
## X             -8.293e-04  6.806e-06 -121.832 < 2e-16 ***
## Age           2.280e-01  6.157e-03  37.025 < 2e-16 ***
## Potential     2.236e-01  4.448e-03  50.275 < 2e-16 ***
## CM            -3.355e-02  1.257e-02  -2.669  0.00761 **
## ID            3.676e-06  5.748e-07   6.395 1.67e-10 ***
## LB            4.503e-02  1.127e-02   3.997 6.47e-05 ***
## LM           -7.535e-02  1.677e-02  -4.492 7.13e-06 ***
## LS            1.667e-01  1.485e-02  11.230 < 2e-16 ***
## Acceleration  1.461e-02  2.762e-03   5.288 1.26e-07 ***
## Aggression    -3.122e-03  1.246e-03  -2.505  0.01225 *
## Balance       -2.910e-03  1.506e-03  -1.932  0.05334 .
## Ball.control   3.912e-02  3.743e-03  10.449 < 2e-16 ***
## Composure     1.847e-02  2.031e-03   9.095 < 2e-16 ***
## Crossing       8.850e-03  2.803e-03   3.158  0.00159 **
## Finishing     -1.406e-02  3.253e-03  -4.321 1.56e-05 ***
## GK.positioning -5.787e-03  3.770e-03  -1.535  0.12481
## Long.shots    -8.437e-03  1.911e-03  -4.415 1.02e-05 ***
## Positioning   -2.745e-02  2.698e-03 -10.173 < 2e-16 ***
## Reactions      3.838e-02  2.921e-03  13.136 < 2e-16 ***
## Short.passing  2.886e-02  3.643e-03   7.923 2.54e-15 ***
## Shot.power    -1.799e-02  2.328e-03  -7.731 1.17e-14 ***
## Sliding.tackle -1.578e-02  3.271e-03  -4.823 1.43e-06 ***
## Stamina        9.250e-03  1.820e-03   5.081 3.81e-07 ***
## Standing.tackle 8.308e-03  3.326e-03   2.498  0.01251 *
## Strength       9.431e-03  1.792e-03   5.263 1.44e-07 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.222 on 10720 degrees of freedom
## Multiple R-squared:  0.9687, Adjusted R-squared:  0.9687
## F-statistic: 1.328e+04 on 25 and 10720 DF, p-value: < 2.2e-16
```

```
##Model Validation - VIF
vif(modellaic)
```

```
##           X           Age      Potential           CM
##      8.873437      5.533535      5.133372      89.749013
##           ID           LB           LM           LS
##      2.281855      87.043371      177.504464      134.527780
##      Acceleration      Aggression      Balance      Ball.control
##      7.640659      2.420762      2.429344      10.831376
##      Composure      Crossing      Finishing      GK.positioning
##      3.049071      11.409530      20.790620      1.007216
##      Long.shots      Positioning      Reactions      Short.passing
##      6.605671      11.459577      4.975591      9.823888
##      Shot.power      Sliding.tackle      Stamina      Standing.tackle
##      6.942729      28.963029      3.042359      29.849989
##      Strength
##      3.751944
```

```
#Fit the model to test aic dataset
testmodellaic <- predict(modellaic, newdata = test)
summary(testmodellaic)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  49.74   61.14   66.36   66.34   71.64   84.76
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE <- sum((observedval - testmodellaic) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.9686172
```

```
#RMSE:
rmse <- sqrt(sum((testmodellaic - observedval)^2)/length(observedval))
rmse
```

```
## [1] 1.206045
```

```
#MSE
mse <- (sum((testmodellaic - observedval)^2)/length(observedval))
mse
```

```
## [1] 1.454546
```

```
max(testmodellaic - observedval)
```

```
## [1] 6.41372
```

```
min(testmodel1aic - observedval)
```

```
## [1] -9.484679
```

##Base Model2 ##Linear model after removing insignificant variables

```
model2 <- lm(formula = Overall ~ X + Age + Potential + CM + LB + LS + Acceleration
              + Balance + Ball.control + Composure + Reactions + Short.passing + Sliding.tackle+
              Stamina + Strength, data = train)
summary(model2)
```

```
##
## Call:
## lm(formula = Overall ~ X + Age + Potential + CM + LB + LS + Acceleration +
##     Balance + Ball.control + Composure + Reactions + Short.passing +
##     Sliding.tackle + Stamina + Strength, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -7.3552 -0.7185 -0.0160  0.7151  9.8722
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   4.184e+01  5.163e-01  81.032 < 2e-16 ***
## X             -8.411e-04  6.775e-06 -124.149 < 2e-16 ***
## Age           2.084e-01  5.358e-03  38.895 < 2e-16 ***
## Potential     2.234e-01  4.395e-03  50.836 < 2e-16 ***
## CM            -1.097e-01  7.115e-03 -15.418 < 2e-16 ***
## LB            8.319e-02  7.271e-03  11.443 < 2e-16 ***
## LS            3.571e-02  4.211e-03   8.479 < 2e-16 ***
## Acceleration  9.858e-03  1.708e-03   5.772 8.05e-09 ***
## Balance       -5.352e-03  1.504e-03  -3.558 0.000375 ***
## Ball.control  4.678e-02  3.125e-03  14.969 < 2e-16 ***
## Composure     1.816e-02  2.034e-03   8.932 < 2e-16 ***
## Reactions     4.569e-02  2.659e-03  17.182 < 2e-16 ***
## Short.passing 4.262e-02  3.331e-03  12.795 < 2e-16 ***
## Sliding.tackle -1.784e-02  3.019e-03  -5.909 3.55e-09 ***
## Stamina       5.810e-03  1.567e-03   3.707 0.000211 ***
## Strength      1.693e-02  1.512e-03  11.194 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.233 on 10730 degrees of freedom
## Multiple R-squared:  0.9681, Adjusted R-squared:  0.9681
## F-statistic: 2.171e+04 on 15 and 10730 DF,  p-value: < 2.2e-16
```

```
testmodel2 <- predict(model2, newdata = test)
summary(testmodel2)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  49.89   61.13   66.35   66.34   71.67   84.89
```

```
##Model Validation - VIF
vif(model2)
```

```
##           X           Age      Potential           CM           LB
##    8.628209    4.112232    4.918847    28.229544    35.562431
##           LS  Acceleration      Balance  Ball.control  Composure
##   10.621732    2.866077    2.377010    7.408896    3.000829
##   Reactions  Short.passing  Sliding.tackle      Stamina      Strength
##    4.045150    8.063367    24.220869    2.213013    2.622387
```

```
observedval <- test$Overall
```

```
#Compute the error values
```

```
SSE <- sum((observedval - testmodel2) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.9679571
```

```
#RMSE:
rmse <- sqrt(sum((testmodel2 - observedval)^2)/length(observedval))
rmse
```

```
## [1] 1.218664
```

```
#MSE
mse <- (sum((testmodel2 - observedval)^2)/length(observedval))
mse
```

```
## [1] 1.485141
```

```
max(testmodel2 - observedval)
```

```
## [1] 6.456147
```

```
min(testmodel2 - observedval)
```

```
## [1] -9.825988
```

##Model Comparison (Selection Method - AIC) #Applying AIC method on model2

```
step2 <- stepAIC(model2, direction = "both")
```

```
## Start: AIC=4519.78
## Overall ~ X + Age + Potential + CM + LB + LS + Acceleration +
## Balance + Ball.control + Composure + Reactions + Short.passing +
## Sliding.tackle + Stamina + Strength
##
##           Df Sum of Sq  RSS    AIC
## <none>                16316 4519.8
## - Balance           1     19.3 16335 4530.5
## - Stamina           1     20.9 16337 4531.5
## - Acceleration      1     50.7 16367 4551.1
## - Sliding.tackle    1     53.1 16369 4552.7
## - LS                1    109.3 16425 4589.5
## - Composure         1    121.3 16437 4597.4
## - Strength          1    190.5 16507 4642.5
## - LB                1    199.1 16515 4648.1
## - Short.passing     1    248.9 16565 4680.5
## - Ball.control      1    340.7 16657 4739.9
## - CM                1    361.5 16678 4753.2
## - Reactions         1    448.9 16765 4809.5
## - Age               1   2300.4 18617 5935.1
## - Potential         1   3929.7 20246 6836.7
## - X                 1  23437.0 39753 14087.4
```

```
step2$anova
```

```
## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## Overall ~ X + Age + Potential + CM + LB + LS + Acceleration +
## Balance + Ball.control + Composure + Reactions + Short.passing +
## Sliding.tackle + Stamina + Strength
##
## Final Model:
## Overall ~ X + Age + Potential + CM + LB + LS + Acceleration +
## Balance + Ball.control + Composure + Reactions + Short.passing +
## Sliding.tackle + Stamina + Strength
##
## Step Df Deviance Resid. Df Resid. Dev    AIC
## 1           10730   16316.17 4519.78
```

```
model2aic <- lm(formula = Overall ~ X + Age + Potential + CM + LB + LS + Acceleration +
                Balance + Ball.control + Composure + Reactions + Short.passing +
                Sliding.tackle + Stamina + Strength, data = train)
summary(model2aic)
```



```
##
## Call:
## lm(formula = Overall ~ X + Age + Potential + CM + LB + LS + Acceleration +
##      Balance + Ball.control + Composure + Reactions + Short.passing +
##      Sliding.tackle + Stamina + Strength, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -7.3552 -0.7185 -0.0160  0.7151  9.8722
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)   4.184e+01  5.163e-01  81.032 < 2e-16 ***
## X             -8.411e-04  6.775e-06 -124.149 < 2e-16 ***
## Age           2.084e-01  5.358e-03  38.895 < 2e-16 ***
## Potential     2.234e-01  4.395e-03  50.836 < 2e-16 ***
## CM            -1.097e-01  7.115e-03 -15.418 < 2e-16 ***
## LB            8.319e-02  7.271e-03  11.443 < 2e-16 ***
## LS            3.571e-02  4.211e-03   8.479 < 2e-16 ***
## Acceleration  9.858e-03  1.708e-03   5.772 8.05e-09 ***
## Balance      -5.352e-03  1.504e-03  -3.558 0.000375 ***
## Ball.control  4.678e-02  3.125e-03  14.969 < 2e-16 ***
## Composure     1.816e-02  2.034e-03   8.932 < 2e-16 ***
## Reactions     4.569e-02  2.659e-03  17.182 < 2e-16 ***
## Short.passing 4.262e-02  3.331e-03  12.795 < 2e-16 ***
## Sliding.tackle -1.784e-02  3.019e-03  -5.909 3.55e-09 ***
## Stamina       5.810e-03  1.567e-03   3.707 0.000211 ***
## Strength      1.693e-02  1.512e-03  11.194 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 1.233 on 10730 degrees of freedom
## Multiple R-squared:  0.9681, Adjusted R-squared:  0.9681
## F-statistic: 2.171e+04 on 15 and 10730 DF,  p-value: < 2.2e-16
```

```
#Fit the model to test aic dataset
testmodel2aic <- predict(model2aic, newdata = test)
summary(testmodel2aic)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##   49.89  61.13   66.35   66.34  71.67   84.89
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE <- sum((observedval - testmodel2aic) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.9679571
```

```
#RMSE:
```

```
rmse <- sqrt(sum((testmodel2aic - observedval)^2)/length(observedval))  
rmse
```

```
## [1] 1.218664
```

```
#MSE
```

```
mse <- (sum((testmodel2aic - observedval)^2)/length(observedval))  
mse
```

```
## [1] 1.485141
```

```
max(testmodel2aic - observedval)
```

```
## [1] 6.456147
```

```
min(testmodel2aic - observedval)
```

```
## [1] -9.825988
```

##Base Model3 ##Linear model after including only skills and not position data

```
#View(train)  
modeldata1 <- subset(train, select = -c(1:2,4:33))  
#View(modeldata1)  
model3 <- lm(formula = Overall ~ ., data = modeldata1)  
summary(model3)
```

```
##
## Call:
## lm(formula = Overall ~ ., data = modeldata1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -9.4032 -1.7016 -0.0526  1.6682 11.4465
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    1.166e+01  3.811e-01  30.598 < 2e-16 ***
## Aggression     -1.066e-03  2.684e-03  -0.397 0.691109
## Agility         7.420e-04  3.770e-03   0.197 0.843969
## Balance        -5.700e-03  3.504e-03  -1.627 0.103809
## Ball.control    1.709e-01  6.327e-03  27.008 < 2e-16 ***
## Composure       1.381e-01  4.153e-03  33.252 < 2e-16 ***
## Crossing        2.033e-02  3.234e-03   6.285 3.40e-10 ***
## Curve          6.246e-03  3.476e-03   1.797 0.072329 .
## Dribbling       4.420e-03  4.948e-03   0.893 0.371733
## Finishing       3.060e-02  3.977e-03   7.695 1.54e-14 ***
## Free.kick.accuracy 9.946e-03  3.071e-03   3.239 0.001204 **
## GK.diving       5.738e-03  8.251e-03   0.695 0.486773
## GK.handling    -7.189e-03  8.321e-03  -0.864 0.387596
## GK.kicking      9.485e-03  7.971e-03   1.190 0.234118
## GK.positioning  -3.891e-03  8.208e-03  -0.474 0.635439
## GK.reflexes    -4.049e-03  8.190e-03  -0.494 0.621041
## Heading.accuracy 9.512e-02  3.492e-03  27.238 < 2e-16 ***
## Interceptions   1.347e-02  3.848e-03   3.501 0.000465 ***
## Jumping         8.838e-03  2.634e-03   3.355 0.000796 ***
## Long.passing    -2.160e-02  4.416e-03  -4.891 1.02e-06 ***
## Long.shots     -1.768e-02  3.745e-03  -4.720 2.39e-06 ***
## Marking         6.307e-03  4.859e-03   1.298 0.194299
## Penalties       9.812e-03  3.440e-03   2.852 0.004354 **
## Positioning    -5.130e-02  3.757e-03 -13.654 < 2e-16 ***
## Reactions       2.664e-01  4.919e-03  54.164 < 2e-16 ***
## Short.passing   9.438e-02  6.164e-03  15.312 < 2e-16 ***
## Shot.power      1.066e-02  3.638e-03   2.932 0.003380 **
## Sliding.tackle  -2.130e-02  5.620e-03  -3.790 0.000151 ***
## Sprint.speed    6.262e-02  3.220e-03  19.450 < 2e-16 ***
## Stamina         7.669e-03  2.964e-03   2.588 0.009676 **
## Standing.tackle 4.010e-02  5.823e-03   6.886 6.05e-12 ***
## Strength        4.426e-02  3.306e-03  13.388 < 2e-16 ***
## Vision         -3.703e-02  4.024e-03  -9.203 < 2e-16 ***
## Volleys        -3.848e-05  3.470e-03  -0.011 0.991151
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.627 on 10712 degrees of freedom
## Multiple R-squared:  0.8555, Adjusted R-squared:  0.855
## F-statistic: 1921 on 33 and 10712 DF, p-value: < 2.2e-16
```

```
testmodel3 <- predict(model3, newdata = test)
summary(testmodel3)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  47.34   62.16   66.48   66.34   70.63   90.96
```

```
##Model Validation - VIF
vif(model3)
```

```
##      Aggression      Agility      Balance
##      2.427266      3.442974      2.842787
##      Ball.control    Composure    Crossing
##      6.690196      2.758076      3.285347
##      Curve          Dribbling     Finishing
##      4.337474      6.235200      6.720137
## Free.kick.accuracy  GK.diving     GK.handling
##      3.340471      1.028870      1.035303
##      GK.kicking     GK.positioning GK.reflexes
##      1.033712      1.032110      1.033961
## Heading.accuracy   Interceptions  Jumping
##      2.579398      8.194978      1.482214
##      Long.passing   Long.shots    Marking
##      4.878990      5.486078      13.994017
##      Penalties     Positioning   Reactions
##      2.918119      4.805179      3.050309
##      Short.passing  Shot.power    Sliding.tackle
##      6.082339      3.666248      18.484866
##      Sprint.speed   Stamina       Standing.tackle
##      2.131253      1.743797      19.781192
##      Strength       Vision         Volleys
##      2.761167      4.302384      4.179713
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE <- sum((observedval - testmodel3) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.8541848
```

```
#RMSE:
rmse <- sqrt(sum((testmodel3 - observedval)^2)/length(observedval))
rmse
```

```
## [1] 2.599676
```

```
#MSE  
mse <- (sum((testmodel3 - observedval)^2)/length(observedval))  
mse
```

```
## [1] 6.758314
```

```
max(testmodel3 - observedval)
```

```
## [1] 8.576065
```

```
min(testmodel3 - observedval)
```

```
## [1] -9.590641
```

##Model Comparison (Selection Method - AIC)

#Applying AIC Method on model3

```
step3 <- stepAIC(model3, direction = "both")
```

```

## Start:  AIC=20792.34
## Overall ~ Aggression + Agility + Balance + Ball.control + Composure +
## Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision + Volleys
##
##           Df Sum of Sq  RSS   AIC
## - Volleys      1      0.0 73928 20790
## - Agility       1      0.3 73929 20790
## - Aggression    1      1.1 73929 20791
## - GK.positioning 1      1.6 73930 20791
## - GK.reflexes   1      1.7 73930 20791
## - GK.diving     1      3.3 73932 20791
## - GK.handling   1      5.2 73934 20791
## - Dribbling     1      5.5 73934 20791
## - GK.kicking    1      9.8 73938 20792
## - Marking       1     11.6 73940 20792
## <none>                73928 20792
## - Balance       1     18.3 73947 20793
## - Curve         1     22.3 73951 20794
## - Stamina       1     46.2 73975 20797
## - Penalties     1     56.1 73984 20799
## - Shot.power    1     59.3 73988 20799
## - Free.kick.accuracy 1     72.4 74001 20801
## - Jumping       1     77.7 74006 20802
## - Interceptions 1     84.6 74013 20803
## - Sliding.tackle 1     99.1 74027 20805
## - Long.shots    1    153.7 74082 20813
## - Long.passing  1    165.1 74093 20814
## - Crossing      1    272.6 74201 20830
## - Standing.tackle 1    327.3 74256 20838
## - Finishing     1    408.7 74337 20850
## - Vision        1    584.5 74513 20875
## - Strength      1   1236.9 75165 20969
## - Positioning   1   1286.6 75215 20976
## - Short.passing  1   1618.2 75547 21023
## - Sprint.speed  1   2610.9 76539 21163
## - Ball.control  1   5034.0 78962 21498
## - Heading.accuracy 1   5120.2 79049 21510
## - Composure     1   7630.9 81559 21846
## - Reactions     1  20247.3 94176 23392
##
## Step:  AIC=20790.34
## Overall ~ Aggression + Agility + Balance + Ball.control + Composure +
## Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision

```

```

##
##          Df Sum of Sq   RSS   AIC
## - Agility          1      0.3 73929 20788
## - Aggression        1      1.1 73929 20789
## - GK.positioning    1      1.6 73930 20789
## - GK.reflexes       1      1.7 73930 20789
## - GK.diving         1      3.3 73932 20789
## - GK.handling       1      5.2 73934 20789
## - Dribbling         1      5.5 73934 20789
## - GK.kicking        1      9.8 73938 20790
## - Marking           1     11.7 73940 20790
## <none>                        73928 20790
## - Balance           1     18.3 73947 20791
## - Curve             1     22.7 73951 20792
## + Volleys           1      0.0 73928 20792
## - Stamina           1     46.2 73975 20795
## - Penalties         1     57.0 73985 20797
## - Shot.power        1     60.4 73989 20797
## - Free.kick.accuracy 1     72.5 74001 20799
## - Jumping           1     77.7 74006 20800
## - Interceptions     1     84.6 74013 20801
## - Sliding.tackle    1     99.1 74027 20803
## - Long.shots        1    155.3 74084 20811
## - Long.passing      1    165.2 74094 20812
## - Crossing          1    272.6 74201 20828
## - Standing.tackle   1    327.3 74256 20836
## - Finishing         1    429.8 74358 20851
## - Vision            1    584.8 74513 20873
## - Strength          1   1237.5 75166 20967
## - Positioning       1   1291.3 75220 20974
## - Short.passing     1   1618.2 75547 21021
## - Sprint.speed      1   2611.1 76539 21161
## - Ball.control      1   5037.0 78965 21497
## - Heading.accuracy  1   5148.2 79077 21512
## - Composure         1   7694.8 81623 21852
## - Reactions         1  20284.0 94212 23394
##
## Step:  AIC=20788.37
## Overall ~ Aggression + Balance + Ball.control + Composure + Crossing +
##           Curve + Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##           GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##           Heading.accuracy + Interceptions + Jumping + Long.passing +
##           Long.shots + Marking + Penalties + Positioning + Reactions +
##           Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##           Stamina + Standing.tackle + Strength + Vision
##
##          Df Sum of Sq   RSS   AIC
## - Aggression          1      1.1 73930 20787
## - GK.positioning      1      1.5 73930 20787
## - GK.reflexes         1      1.7 73930 20787
## - GK.diving           1      3.4 73932 20787
## - GK.handling         1      5.1 73934 20787
## - Dribbling           1      5.7 73934 20787
## - GK.kicking          1      9.8 73938 20788

```

```

## - Marking          1      11.7 73940 20788
## <none>              73929 20788
## - Balance          1      18.9 73947 20789
## - Curve            1      23.0 73952 20790
## + Agility          1       0.3 73928 20790
## + Volleys          1       0.0 73929 20790
## - Stamina          1      47.6 73976 20793
## - Penalties        1      56.7 73985 20795
## - Shot.power        1      60.1 73989 20795
## - Free.kick.accuracy 1      72.6 74001 20797
## - Jumping          1      80.9 74009 20798
## - Interceptions     1      84.9 74013 20799
## - Sliding.tackle    1      99.5 74028 20801
## - Long.shots        1     155.0 74084 20809
## - Long.passing      1     165.3 74094 20810
## - Crossing          1     273.6 74202 20826
## - Standing.tackle   1     327.0 74256 20834
## - Finishing          1     430.0 74359 20849
## - Vision            1     584.6 74513 20871
## - Strength          1    1245.7 75174 20966
## - Positioning       1    1291.0 75220 20972
## - Short.passing     1    1618.2 75547 21019
## - Sprint.speed      1    2944.7 76873 21206
## - Ball.control      1    5078.8 79007 21500
## - Heading.accuracy  1    5214.5 79143 21519
## - Composure         1    7700.4 81629 21851
## - Reactions         1   20336.7 94265 23398
##
## Step:  AIC=20786.53
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##   GK.handling + GK.kicking + GK.positioning + GK.reflexes +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS   AIC
## - GK.positioning    1       1.6 73931 20785
## - GK.reflexes       1       1.7 73931 20785
## - GK.diving         1       3.3 73933 20785
## - GK.handling       1       5.1 73935 20785
## - Dribbling         1       5.7 73935 20785
## - GK.kicking        1       9.8 73939 20786
## - Marking           1      11.7 73941 20786
## <none>              73930 20787
## - Balance          1      19.3 73949 20787
## - Curve            1      23.2 73953 20788
## + Aggression        1       1.1 73929 20788
## + Agility           1       0.3 73929 20789
## + Volleys           1       0.0 73930 20789
## - Stamina           1      46.8 73976 20791
## - Penalties         1      57.3 73987 20793
## - Shot.power        1      59.1 73989 20793

```



```

## - Free.kick.accuracy 1      72.3 74002 20795
## - Jumping            1      79.8 74010 20796
## - Interceptions      1      83.8 74013 20797
## - Sliding.tackle     1     101.1 74031 20799
## - Long.shots         1     154.6 74084 20807
## - Long.passing       1     165.3 74095 20809
## - Crossing           1     274.9 74205 20824
## - Standing.tackle    1     326.0 74256 20832
## - Finishing          1     433.1 74363 20847
## - Vision             1     584.3 74514 20869
## - Strength           1    1282.7 75212 20969
## - Positioning        1    1303.6 75233 20972
## - Short.passing      1    1617.6 75547 21017
## - Sprint.speed       1    2958.3 76888 21206
## - Ball.control       1    5081.9 79012 21499
## - Heading.accuracy   1    5235.8 79165 21520
## - Composure         1    7703.7 81633 21850
## - Reactions          1   20467.1 94397 23411
##
## Step: AIC=20784.76
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##   GK.handling + GK.kicking + GK.reflexes + Heading.accuracy +
##   Interceptions + Jumping + Long.passing + Long.shots + Marking +
##   Penalties + Positioning + Reactions + Short.passing + Shot.power +
##   Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##   Strength + Vision
##
##           Df Sum of Sq  RSS   AIC
## - GK.reflexes      1      1.9 73933 20783
## - GK.diving        1      3.0 73934 20783
## - GK.handling      1      5.5 73937 20784
## - Dribbling        1      5.8 73937 20784
## - GK.kicking       1      9.3 73941 20784
## - Marking          1     11.6 73943 20784
## <none>              73931 20785
## - Balance          1     19.4 73951 20786
## - Curve            1     23.3 73955 20786
## + GK.positioning   1      1.6 73930 20787
## + Aggression       1      1.1 73930 20787
## + Agility          1      0.3 73931 20787
## + Volleys          1      0.0 73931 20787
## - Stamina          1     46.5 73978 20790
## - Penalties        1     57.4 73989 20791
## - Shot.power       1     59.2 73991 20791
## - Free.kick.accuracy 1     72.0 74003 20793
## - Jumping          1     79.4 74011 20794
## - Interceptions    1     83.9 74015 20795
## - Sliding.tackle   1    101.0 74032 20797
## - Long.shots       1    154.5 74086 20805
## - Long.passing     1    165.5 74097 20807
## - Crossing         1    274.1 74205 20823
## - Standing.tackle  1    326.2 74258 20830
## - Finishing        1    432.7 74364 20846

```

```

## - Vision          1      584.5 74516 20867
## - Strength        1     1281.5 75213 20967
## - Positioning     1     1303.7 75235 20971
## - Short.passing   1     1617.5 75549 21015
## - Sprint.speed    1     2963.3 76895 21205
## - Ball.control    1     5080.9 79012 21497
## - Heading.accuracy 1     5235.2 79166 21518
## - Composure       1     7709.2 81640 21849
## - Reactions       1    20466.9 94398 23409
##
## Step: AIC=20783.04
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Dribbling + Finishing + Free.kick.accuracy + GK.diving +
##   GK.handling + GK.kicking + Heading.accuracy + Interceptions +
##   Jumping + Long.passing + Long.shots + Marking + Penalties +
##   Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##   Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS   AIC
## - GK.diving      1        2.7 73936 20781
## - Dribbling      1         5.8 73939 20782
## - GK.handling    1         6.1 73939 20782
## - GK.kicking     1         8.6 73942 20782
## - Marking        1        11.5 73945 20783
## <none>              73933 20783
## - Balance        1        19.3 73953 20784
## - Curve          1        23.4 73957 20784
## + GK.reflexes    1         1.9 73931 20785
## + GK.positioning 1         1.8 73931 20785
## + Aggression     1         1.1 73932 20785
## + Agility        1         0.3 73933 20785
## + Volleys        1         0.0 73933 20785
## - Stamina        1        46.1 73979 20788
## - Penalties      1        57.6 73991 20789
## - Shot.power     1        59.2 73992 20790
## - Free.kick.accuracy 1       71.8 74005 20792
## - Jumping        1        79.2 74012 20793
## - Interceptions  1        84.0 74017 20793
## - Sliding.tackle 1       101.0 74034 20796
## - Long.shots     1       155.1 74088 20804
## - Long.passing   1       165.0 74098 20805
## - Crossing       1       273.8 74207 20821
## - Standing.tackle 1       326.6 74260 20828
## - Finishing      1       432.1 74365 20844
## - Vision         1       585.0 74518 20866
## - Strength       1      1280.7 75214 20966
## - Positioning    1      1302.9 75236 20969
## - Short.passing  1      1616.7 75550 21014
## - Sprint.speed   1      2963.5 76897 21203
## - Ball.control   1      5081.7 79015 21495
## - Heading.accuracy 1      5236.0 79169 21516
## - Composure      1      7714.0 81647 21848
## - Reactions      1     20465.4 94399 23407
##

```

```
## Step: AIC=20781.43
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Dribbling + Finishing + Free.kick.accuracy + GK.handling +
##   GK.kicking + Heading.accuracy + Interceptions + Jumping +
##   Long.passing + Long.shots + Marking + Penalties + Positioning +
##   Reactions + Short.passing + Shot.power + Sliding.tackle +
##   Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
```

	Df	Sum of Sq	RSS	AIC
## - GK.handling	1	5.4	73941	20780
## - Dribbling	1	6.0	73942	20780
## - GK.kicking	1	9.2	73945	20781
## - Marking	1	11.8	73948	20781
## <none>			73936	20781
## - Balance	1	19.3	73955	20782
## - Curve	1	23.3	73959	20783
## + GK.diving	1	2.7	73933	20783
## + GK.reflexes	1	1.6	73934	20783
## + GK.positioning	1	1.5	73934	20783
## + Aggression	1	1.1	73935	20783
## + Agility	1	0.3	73936	20783
## + Volleys	1	0.0	73936	20783
## - Stamina	1	46.0	73982	20786
## - Penalties	1	57.9	73994	20788
## - Shot.power	1	59.3	73995	20788
## - Free.kick.accuracy	1	72.0	74008	20790
## - Jumping	1	79.8	74016	20791
## - Interceptions	1	83.5	74019	20792
## - Sliding.tackle	1	101.6	74038	20794
## - Long.shots	1	155.5	74091	20802
## - Long.passing	1	165.1	74101	20803
## - Crossing	1	275.2	74211	20819
## - Standing.tackle	1	327.2	74263	20827
## - Finishing	1	433.2	74369	20842
## - Vision	1	584.7	74521	20864
## - Strength	1	1283.6	75220	20964
## - Positioning	1	1304.1	75240	20967
## - Short.passing	1	1617.6	75554	21012
## - Sprint.speed	1	2961.3	76897	21201
## - Ball.control	1	5079.0	79015	21493
## - Heading.accuracy	1	5235.2	79171	21515
## - Composure	1	7711.6	81647	21846
## - Reactions	1	20472.9	94409	23406

```
##
## Step: AIC=20780.23
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Dribbling + Finishing + Free.kick.accuracy + GK.kicking +
##   Heading.accuracy + Interceptions + Jumping + Long.passing +
##   Long.shots + Marking + Penalties + Positioning + Reactions +
##   Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
##   Stamina + Standing.tackle + Strength + Vision
##
```

	Df	Sum of Sq	RSS	AIC
## - Dribbling	1	6.1	73947	20779

```

## - GK.kicking      1      8.0 73949 20779
## - Marking          1     11.4 73953 20780
## <none>              73941 20780
## - Balance          1     18.9 73960 20781
## + GK.handling      1      5.4 73936 20781
## - Curve            1     23.4 73965 20782
## + GK.reflexes      1      2.2 73939 20782
## + GK.diving         1      2.1 73939 20782
## + GK.positioning   1      1.9 73939 20782
## + Aggression       1      1.1 73940 20782
## + Agility          1      0.2 73941 20782
## + Volleys          1      0.0 73941 20782
## - Stamina          1     45.5 73987 20785
## - Penalties        1     57.7 73999 20787
## - Shot.power       1     60.3 74002 20787
## - Free.kick.accuracy 1     71.3 74013 20789
## - Jumping          1     79.1 74020 20790
## - Interceptions    1     83.9 74025 20790
## - Sliding.tackle   1    100.7 74042 20793
## - Long.shots       1    155.3 74097 20801
## - Long.passing     1    165.2 74107 20802
## - Crossing         1    274.6 74216 20818
## - Standing.tackle  1    326.6 74268 20826
## - Finishing        1    431.1 74372 20841
## - Vision           1    586.5 74528 20863
## - Strength         1   1280.6 75222 20963
## - Positioning      1   1303.4 75245 20966
## - Short.passing    1   1616.8 75558 21011
## - Sprint.speed     1   2960.6 76902 21200
## - Ball.control     1   5079.7 79021 21492
## - Heading.accuracy  1   5235.7 79177 21513
## - Composure        1   7718.7 81660 21845
## - Reactions        1  20470.9 94412 23405
##
## Step:  AIC=20779.11
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##      Finishing + Free.kick.accuracy + GK.kicking + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Penalties + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##      Strength + Vision
##
##              Df Sum of Sq  RSS  AIC
## - GK.kicking      1      8.0 73955 20778
## - Marking          1     10.7 73958 20779
## <none>              73947 20779
## - Balance          1     17.8 73965 20780
## + Dribbling        1      6.1 73941 20780
## + GK.handling      1      5.5 73942 20780
## + GK.diving         1      2.2 73945 20781
## + GK.reflexes      1      2.2 73945 20781
## - Curve            1     25.3 73973 20781
## + GK.positioning   1      2.0 73945 20781
## + Aggression       1      1.1 73946 20781

```

```

## + Agility          1      0.4 73947 20781
## + Volleys          1      0.0 73947 20781
## - Stamina          1     44.3 73992 20784
## - Penalties        1     57.5 74005 20786
## - Shot.power       1     59.0 74006 20786
## - Free.kick.accuracy 1     68.8 74016 20787
## - Jumping          1     77.0 74024 20788
## - Interceptions    1     82.5 74030 20789
## - Sliding.tackle   1     98.9 74046 20792
## - Long.shots       1    151.8 74099 20799
## - Long.passing     1    165.2 74113 20801
## - Crossing         1    298.3 74246 20820
## - Standing.tackle  1    326.9 74274 20825
## - Finishing        1    440.8 74388 20841
## - Vision           1    580.6 74528 20861
## - Strength         1   1274.6 75222 20961
## - Positioning      1   1315.5 75263 20967
## - Short.passing    1   1616.0 75563 21009
## - Sprint.speed     1   3216.5 77164 21235
## - Heading.accuracy 1   5233.6 79181 21512
## - Ball.control     1   6515.3 80463 21685
## - Composure        1   7712.7 81660 21843
## - Reactions        1  20472.6 94420 23403
##
## Step:  AIC=20778.27
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##      Finishing + Free.kick.accuracy + Heading.accuracy + Interceptions +
##      Jumping + Long.passing + Long.shots + Marking + Penalties +
##      Positioning + Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS  AIC
## - Marking      1      11.0 73966 20778
## <none>              73955 20778
## - Balance      1      18.2 73974 20779
## + GK.kicking   1       8.0 73947 20779
## + Dribbling    1       6.1 73949 20779
## + GK.handling  1       4.3 73951 20780
## + GK.diving    1       2.8 73953 20780
## - Curve        1     25.1 73981 20780
## + GK.reflexes  1       1.4 73954 20780
## + GK.positioning 1       1.3 73954 20780
## + Aggression   1       1.1 73954 20780
## + Agility      1       0.4 73955 20780
## + Volleys      1       0.0 73955 20780
## - Stamina      1     45.1 74000 20783
## - Penalties    1     57.7 74013 20785
## - Shot.power   1     58.4 74014 20785
## - Free.kick.accuracy 1     69.3 74025 20786
## - Jumping      1     78.2 74034 20788
## - Interceptions 1     83.6 74039 20788
## - Sliding.tackle 1     99.1 74055 20791
## - Long.shots   1    150.6 74106 20798
## - Long.passing  1    164.8 74120 20800

```

```

## - Crossing          1      298.4 74254 20820
## - Standing.tackle   1      325.5 74281 20824
## - Finishing          1      441.9 74397 20840
## - Vision            1      581.0 74536 20860
## - Strength          1     1271.5 75227 20960
## - Positioning       1     1313.5 75269 20965
## - Short.passing     1     1615.2 75571 21008
## - Sprint.speed      1     3213.5 77169 21233
## - Heading.accuracy  1     5237.4 79193 21512
## - Ball.control      1     6511.8 80467 21683
## - Composure        1     7717.1 81673 21843
## - Reactions         1    20469.4 94425 23402
##
## Step:  AIC=20777.86
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##      Finishing + Free.kick.accuracy + Heading.accuracy + Interceptions +
##      Jumping + Long.passing + Long.shots + Penalties + Positioning +
##      Reactions + Short.passing + Shot.power + Sliding.tackle +
##      Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##              Df Sum of Sq  RSS  AIC
## <none>                73966 20778
## + Marking             1      11.0 73955 20778
## - Balance             1      18.1 73985 20779
## + GK.kicking          1       8.3 73958 20779
## + Dribbling           1       5.4 73961 20779
## + GK.handling         1       4.0 73962 20779
## + GK.diving           1       3.1 73963 20779
## - Curve               1      24.8 73991 20780
## + GK.reflexes         1       1.2 73965 20780
## + GK.positioning      1       1.2 73965 20780
## + Aggression          1       1.1 73965 20780
## + Agility             1       0.4 73966 20780
## + Volleys             1       0.1 73966 20780
## - Stamina             1      46.4 74013 20783
## - Shot.power          1      56.6 74023 20784
## - Penalties           1      56.9 74023 20784
## - Free.kick.accuracy  1      68.3 74035 20786
## - Jumping             1      76.7 74043 20787
## - Sliding.tackle     1      88.3 74055 20789
## - Interceptions       1     103.3 74070 20791
## - Long.shots          1     150.5 74117 20798
## - Long.passing        1     160.9 74127 20799
## - Crossing            1     305.7 74272 20820
## - Standing.tackle    1     382.3 74349 20831
## - Finishing           1     439.5 74406 20840
## - Vision              1     591.6 74558 20862
## - Strength            1    1279.8 75246 20960
## - Positioning         1    1352.9 75319 20971
## - Short.passing       1    1612.1 75579 21008
## - Sprint.speed        1    3205.0 77171 21232
## - Heading.accuracy    1    5310.4 79277 21521
## - Ball.control        1    6530.3 80497 21685

```

```
## - Composure          1    7746.9 81713 21846
## - Reactions           1    20486.2 94453 23403
```

```
step3$anova
```

```
## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## Overall ~ Aggression + Agility + Balance + Ball.control + Composure +
## Crossing + Curve + Dribbling + Finishing + Free.kick.accuracy +
## GK.diving + GK.handling + GK.kicking + GK.positioning + GK.reflexes +
## Heading.accuracy + Interceptions + Jumping + Long.passing +
## Long.shots + Marking + Penalties + Positioning + Reactions +
## Short.passing + Shot.power + Sliding.tackle + Sprint.speed +
## Stamina + Standing.tackle + Strength + Vision + Volleys
##
## Final Model:
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
## Finishing + Free.kick.accuracy + Heading.accuracy + Interceptions +
## Jumping + Long.passing + Long.shots + Penalties + Positioning +
## Reactions + Short.passing + Shot.power + Sliding.tackle +
## Sprint.speed + Stamina + Standing.tackle + Strength + Vision
##
##
##
```

	Step	Df	Deviance	Resid. Df	Resid. Dev	AIC
## 1				10712	73928.35	20792.34
## 2	- Volleys	1	8.489133e-04	10713	73928.35	20790.34
## 3	- Agility	1	2.669972e-01	10714	73928.62	20788.37
## 4	- Aggression	1	1.097328e+00	10715	73929.71	20786.53
## 5	- GK.positioning	1	1.562706e+00	10716	73931.28	20784.76
## 6	- GK.reflexes	1	1.946687e+00	10717	73933.22	20783.04
## 7	- GK.diving	1	2.689553e+00	10718	73935.91	20781.43
## 8	- GK.handling	1	5.438366e+00	10719	73941.35	20780.23
## 9	- Dribbling	1	6.053116e+00	10720	73947.40	20779.11
## 10	- GK.kicking	1	8.034900e+00	10721	73955.44	20778.27
## 11	- Marking	1	1.095415e+01	10722	73966.39	20777.86

```
model3aic <- lm(formula = Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
  Dribbling + Finishing + Free.kick.accuracy + Heading.accuracy +
  Interceptions + Jumping + Long.passing + Long.shots + Marking +
  Penalties + Positioning + Reactions + Short.passing + Shot.power +
  Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
  Strength + Vision, data = train)
summary(model3aic)
```

```
##
## Call:
## lm(formula = Overall ~ Balance + Ball.control + Composure + Crossing +
##      Curve + Dribbling + Finishing + Free.kick.accuracy + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Marking +
##      Penalties + Positioning + Reactions + Short.passing + Shot.power +
##      Sliding.tackle + Sprint.speed + Stamina + Standing.tackle +
##      Strength + Vision, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -9.4271 -1.7101 -0.0516  1.6737 11.4713
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    11.687216    0.347270   33.655 < 2e-16 ***
## Balance        -0.005541    0.003307   -1.676 0.093811 .
## Ball.control     0.170862    0.006299   27.127 < 2e-16 ***
## Composure       0.138176    0.004130   33.460 < 2e-16 ***
## Crossing        0.020367    0.003228    6.309 2.91e-10 ***
## Curve           0.006294    0.003436    1.832 0.066997 .
## Dribbling       0.004646    0.004935    0.942 0.346424
## Finishing       0.030625    0.003869    7.915 2.71e-15 ***
## Free.kick.accuracy 0.009896    0.003066    3.228 0.001252 **
## Heading.accuracy 0.094953    0.003445   27.560 < 2e-16 ***
## Interceptions   0.013403    0.003818    3.510 0.000449 ***
## Jumping         0.008830    0.002589    3.411 0.000649 ***
## Long.passing    -0.021571    0.004413   -4.888 1.03e-06 ***
## Long.shots      -0.017599    0.003723   -4.727 2.31e-06 ***
## Marking         0.006301    0.004848    1.300 0.193718
## Penalties       0.009868    0.003405    2.898 0.003764 **
## Positioning     -0.051356    0.003739  -13.736 < 2e-16 ***
## Reactions       0.266289    0.004889   54.471 < 2e-16 ***
## Short.passing   0.094312    0.006162   15.306 < 2e-16 ***
## Shot.power      0.010482    0.003563    2.942 0.003264 **
## Sliding.tackle  -0.021441    0.005605   -3.826 0.000131 ***
## Sprint.speed    0.062850    0.003035   20.706 < 2e-16 ***
## Stamina         0.007590    0.002931    2.590 0.009615 **
## Standing.tackle 0.039908    0.005813    6.866 6.99e-12 ***
## Strength        0.043808    0.003219   13.609 < 2e-16 ***
## Vision         -0.037079    0.004020   -9.224 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.626 on 10720 degrees of freedom
## Multiple R-squared:  0.8554, Adjusted R-squared:  0.8551
## F-statistic: 2537 on 25 and 10720 DF, p-value: < 2.2e-16
```

```
#Fit the model to test aic dataset
testmodel3aic <- predict(model3aic, newdata = test)
summary(testmodel3aic)
```



```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  47.28  62.17   66.47   66.34   70.63   90.94
```

```
##Model Validation - VIF
vif(model3aic)
```

```
##           Balance      Ball.control      Composure
##      2.532881      6.633264      2.727871
##      Crossing      Curve      Dribbling
##      3.274358      4.240541      6.203955
##      Finishing Free.kick.accuracy Heading.accuracy
##      6.363781      3.331628      2.511831
##      Interceptions      Jumping      Long.passing
##      8.073810      1.432116      4.874367
##      Long.shots      Marking      Penalties
##      5.423969      13.940514      2.860183
##      Positioning      Reactions      Short.passing
##      4.760385      3.014137      6.080849
##      Shot.power      Sliding.tackle      Sprint.speed
##      3.518103      18.394814      1.895337
##      Stamina      Standing.tackle      Strength
##      1.705807      19.722217      2.619580
##      Vision
##      4.296185
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE <- sum((observedval - testmodel3aic) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.85431
```

```
#RMSE:
rmse <- sqrt(sum((testmodel3aic - observedval)^2)/length(observedval))
rmse
```

```
## [1] 2.598559
```

```
#MSE
mse <- (sum((testmodel3aic - observedval)^2)/length(observedval))
mse
```

```
## [1] 6.752509
```

```
max(testmodel3aic - observedval)
```

```
## [1] 8.596963
```

```
min(testmodel3aic - observedval)
```

```
## [1] -9.586019
```

##Base Model4 ##Linear model after including only skills and not position data

```
#View(train)

modeldata1 <- subset(train, select = -c(1:2,4:33))
#View(modeldata1)
model4 <- lm(formula = Overall ~ Balance + Ball.control + Composure + Crossing + Curve + Finishing +
             + Free.kick.accuracy + Heading.accuracy + Interceptions + Jumping + Long.passing
             + Long.shots + Penalties + Positioning + Reactions + Short.passing + Sliding.tackle
             + Shot.power + Stamina + Standing.tackle + Strength + Stamina + Sprint.speed + Vision, data = modeldata1)
summary(model4)
```

```
##
## Call:
## lm(formula = Overall ~ Balance + Ball.control + Composure + Crossing +
##      Curve + Finishing + Free.kick.accuracy + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Penalties +
##      Positioning + Reactions + Short.passing + Sliding.tackle +
##      Shot.power + Stamina + Standing.tackle + Strength + Stamina +
##      Sprint.speed + Vision, data = modeldata1)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -9.4172 -1.7071 -0.0556  1.6754 11.4546
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    11.696867    0.347214   33.688 < 2e-16 ***
## Balance        -0.005351    0.003301   -1.621 0.105068
## Ball.control     0.173676    0.005645   30.767 < 2e-16 ***
## Composure       0.138238    0.004125   33.511 < 2e-16 ***
## Crossing        0.021125    0.003173    6.657 2.92e-11 ***
## Curve           0.006492    0.003426    1.895 0.058157 .
## Finishing       0.030798    0.003858    7.982 1.59e-15 ***
## Free.kick.accuracy 0.009623    0.003058    3.146 0.001657 **
## Heading.accuracy 0.095103    0.003428   27.745 < 2e-16 ***
## Interceptions   0.014380    0.003715    3.870 0.000109 ***
## Jumping         0.008616    0.002584    3.334 0.000859 ***
## Long.passing    -0.021288    0.004407   -4.830 1.38e-06 ***
## Long.shots      -0.017347    0.003714   -4.670 3.04e-06 ***
## Penalties       0.009778    0.003405    2.872 0.004090 **
## Positioning     -0.051187    0.003655  -14.004 < 2e-16 ***
## Reactions       0.266384    0.004888   54.494 < 2e-16 ***
## Short.passing   0.094187    0.006161   15.287 < 2e-16 ***
## Sliding.tackle  -0.018622    0.005204   -3.579 0.000347 ***
## Shot.power      0.010189    0.003558    2.864 0.004192 **
## Stamina         0.007593    0.002927    2.594 0.009502 **
## Standing.tackle 0.041814    0.005617    7.444 1.05e-13 ***
## Strength        0.043735    0.003211   13.620 < 2e-16 ***
## Sprint.speed    0.063433    0.002943   21.554 < 2e-16 ***
## Vision          -0.037039    0.004000   -9.261 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.627 on 10722 degrees of freedom
## Multiple R-squared:  0.8554, Adjusted R-squared:  0.8551
## F-statistic: 2757 on 23 and 10722 DF, p-value: < 2.2e-16
```

```
testmodel4 <- predict(model4, newdata = test)
summary(testmodel4)
```

```
##      Min. 1st Qu.  Median      Mean 3rd Qu.      Max.
##      47.33  62.18   66.48   66.34   70.64   90.97
```

```
##Model Validation - VIF
vif(model4)
```

```
##          Balance      Ball.control      Composure
##      2.524875      5.327524      2.721981
##      Crossing      Curve      Finishing
##      3.163578      4.216794      6.328434
## Free.kick.accuracy  Heading.accuracy  Interceptions
##      3.314840      2.486208      7.644527
##      Jumping      Long.passing      Long.shots
##      1.427187      4.861652      5.397912
##      Penalties      Positioning      Reactions
##      2.859264      4.549611      3.013556
## Short.passing      Sliding.tackle      Shot.power
##      6.079752      15.857568      3.508344
##      Stamina      Standing.tackle      Strength
##      1.701851      18.415598      2.606422
##      Sprint.speed      Vision
##      1.781487      4.252790
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE4 <- sum((observedval - testmodel4) ^ 2)
SST4 <- sum((observedval - mean(observedval)) ^ 2)
r24 <- 1 - SSE4/SST4
r24
```

```
## [1] 0.8542037
```

```
#RMSE:
rmse4 <- sqrt(sum((testmodel4 - observedval)^2)/length(observedval))
rmse4
```

```
## [1] 2.599507
```

```
#MSE
mse4 <- (sum((testmodel4 - observedval)^2)/length(observedval))
mse4
```

```
## [1] 6.757438
```

```
max(testmodel4 - observedval)
```

```
## [1] 8.64474
```

```
min(testmodel4 - observedval)
```

```
## [1] -9.61162
```

##Model Comparison (Selection Method - AIC) #Applying AIC Method on model4

```
step4 <- stepAIC(model4, direction = "both")
```

```
## Start:  AIC=20777.86
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Finishing + +Free.kick.accuracy + Heading.accuracy + Interceptions +
##   Jumping + Long.passing + Long.shots + Penalties + Positioning +
##   Reactions + Short.passing + Sliding.tackle + Shot.power +
##   Stamina + Standing.tackle + Strength + Stamina + Sprint.speed +
##   Vision
##
##           Df Sum of Sq   RSS   AIC
## <none>                73966 20778
## - Balance           1      18.1 73985 20779
## - Curve              1      24.8 73991 20780
## - Stamina            1      46.4 74013 20783
## - Shot.power         1      56.6 74023 20784
## - Penalties          1      56.9 74023 20784
## - Free.kick.accuracy 1      68.3 74035 20786
## - Jumping            1      76.7 74043 20787
## - Sliding.tackle     1      88.3 74055 20789
## - Interceptions      1     103.3 74070 20791
## - Long.shots         1     150.5 74117 20798
## - Long.passing       1     160.9 74127 20799
## - Crossing           1     305.7 74272 20820
## - Standing.tackle    1     382.3 74349 20831
## - Finishing          1     439.5 74406 20840
## - Vision             1     591.6 74558 20862
## - Strength           1    1279.8 75246 20960
## - Positioning        1    1352.9 75319 20971
## - Short.passing      1    1612.1 75579 21008
## - Sprint.speed       1    3205.0 77171 21232
## - Heading.accuracy   1    5310.4 79277 21521
## - Ball.control       1    6530.3 80497 21685
## - Composure          1    7746.9 81713 21846
## - Reactions          1   20486.2 94453 23403
```

```
step4$anova
```

```
## Stepwise Model Path
## Analysis of Deviance Table
##
## Initial Model:
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Finishing + +Free.kick.accuracy + Heading.accuracy + Interceptions +
##   Jumping + Long.passing + Long.shots + Penalties + Positioning +
##   Reactions + Short.passing + Sliding.tackle + Shot.power +
##   Stamina + Standing.tackle + Strength + Stamina + Sprint.speed +
##   Vision
##
## Final Model:
## Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
##   Finishing + +Free.kick.accuracy + Heading.accuracy + Interceptions +
##   Jumping + Long.passing + Long.shots + Penalties + Positioning +
##   Reactions + Short.passing + Sliding.tackle + Shot.power +
##   Stamina + Standing.tackle + Strength + Stamina + Sprint.speed +
##   Vision
##
##
##      Step Df Deviance Resid. Df Resid. Dev      AIC
## 1              10722   73966.39 20777.86
```

```
model4aic <- lm(formula = Overall ~ Balance + Ball.control + Composure + Crossing + Curve +
  Finishing + +Free.kick.accuracy + Heading.accuracy + Interceptions +
  Jumping + Long.passing + Long.shots + Penalties + Positioning +
  Reactions + Short.passing + Sliding.tackle + Shot.power +
  Stamina + Standing.tackle + Strength + Stamina + Sprint.speed +
  Vision, data = train)
summary(model4aic)
```

```
##
## Call:
## lm(formula = Overall ~ Balance + Ball.control + Composure + Crossing +
##      Curve + Finishing + +Free.kick.accuracy + Heading.accuracy +
##      Interceptions + Jumping + Long.passing + Long.shots + Penalties +
##      Positioning + Reactions + Short.passing + Sliding.tackle +
##      Shot.power + Stamina + Standing.tackle + Strength + Stamina +
##      Sprint.speed + Vision, data = train)
##
## Residuals:
##      Min       1Q   Median       3Q      Max
## -9.4172 -1.7071 -0.0556  1.6754 11.4546
##
## Coefficients:
##              Estimate Std. Error t value Pr(>|t|)
## (Intercept)    11.696867   0.347214   33.688 < 2e-16 ***
## Balance        -0.005351   0.003301   -1.621 0.105068
## Ball.control    0.173676   0.005645   30.767 < 2e-16 ***
## Composure      0.138238   0.004125   33.511 < 2e-16 ***
## Crossing       0.021125   0.003173    6.657 2.92e-11 ***
## Curve          0.006492   0.003426    1.895 0.058157 .
## Finishing      0.030798   0.003858    7.982 1.59e-15 ***
## Free.kick.accuracy 0.009623   0.003058    3.146 0.001657 **
## Heading.accuracy 0.095103   0.003428   27.745 < 2e-16 ***
## Interceptions   0.014380   0.003715    3.870 0.000109 ***
## Jumping        0.008616   0.002584    3.334 0.000859 ***
## Long.passing   -0.021288   0.004407   -4.830 1.38e-06 ***
## Long.shots     -0.017347   0.003714   -4.670 3.04e-06 ***
## Penalties      0.009778   0.003405    2.872 0.004090 **
## Positioning    -0.051187   0.003655  -14.004 < 2e-16 ***
## Reactions      0.266384   0.004888   54.494 < 2e-16 ***
## Short.passing   0.094187   0.006161   15.287 < 2e-16 ***
## Sliding.tackle -0.018622   0.005204   -3.579 0.000347 ***
## Shot.power     0.010189   0.003558    2.864 0.004192 **
## Stamina        0.007593   0.002927    2.594 0.009502 **
## Standing.tackle 0.041814   0.005617    7.444 1.05e-13 ***
## Strength       0.043735   0.003211   13.620 < 2e-16 ***
## Sprint.speed   0.063433   0.002943   21.554 < 2e-16 ***
## Vision        -0.037039   0.004000   -9.261 < 2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
##
## Residual standard error: 2.627 on 10722 degrees of freedom
## Multiple R-squared:  0.8554, Adjusted R-squared:  0.8551
## F-statistic: 2757 on 23 and 10722 DF, p-value: < 2.2e-16
```

```
#Fit the model to test aic dataset
testmodel4aic <- predict(model4aic, newdata = test)
summary(testmodel4aic)
```

```
##      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
##  47.33   62.18   66.48   66.34   70.64   90.97
```

```
##Model Validation - VIF
vif(model4aic)
```

```
##           Balance      Ball.control      Composure
##      2.524875      5.327524      2.721981
##      Crossing      Curve      Finishing
##      3.163578      4.216794      6.328434
## Free.kick.accuracy  Heading.accuracy  Interceptions
##      3.314840      2.486208      7.644527
##      Jumping      Long.passing      Long.shots
##      1.427187      4.861652      5.397912
##      Penalties      Positioning      Reactions
##      2.859264      4.549611      3.013556
##      Short.passing  Sliding.tackle      Shot.power
##      6.079752      15.857568      3.508344
##      Stamina      Standing.tackle      Strength
##      1.701851      18.415598      2.606422
##      Sprint.speed      Vision
##      1.781487      4.252790
```

```
observedval <- test$Overall
```

#Compute the error values

```
SSE <- sum((observedval - testmodel4aic) ^ 2)
SST <- sum((observedval - mean(observedval)) ^ 2)
r2 <- 1 - SSE/SST
r2
```

```
## [1] 0.8542037
```

```
##RMSE:
rmse <- sqrt(sum((testmodel4aic - observedval)^2)/length(observedval))
rmse
```

```
## [1] 2.599507
```

```
##MSE
mse <- (sum((testmodel4aic - observedval)^2)/length(observedval))
mse
```

```
## [1] 6.757438
```



```
max(testmodel4aic - observedval)
```

```
## [1] 8.64474
```

```
min(testmodel4aic - observedval)
```

```
## [1] -9.61162
```