

# CPTS 475 Homework 3

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1.

Here is a description of the variables:

Variable	Description
PLAYER	Name of the player
TEAM	Name of the team
AGE	Age of the player
GP	Games Played
W	Wins
L	Losses
MIN	Minutes Played
PTS	Points
FGM	Field Goals Made
FGA	Field Goals Attempted
X3PM	3 Point Field Goals Made
X3PA	3 Point Field Goals Attempted
FTM	Free Throws Made
FTA	Free Throws Attempted
OREB	Offensive Rebounds
DREB	Defensive Rebounds
REB	Rebounds
AST	Assists
TOV	Turnovers
STL	Steals
BLK	Blocks
PF	Personal Fouls
FP	Fantasy points

Variable	Description
DD2	Double Doubles
TD3	Triple Doubles

```
library(dplyr)
```

```
##
## Attaching package: 'dplyr'
```

```
## The following objects are masked from 'package:stats':
##
##   filter, lag
```

```
## The following objects are masked from 'package:base':
##
##   intersect, setdiff, setequal, union
```

```
nba_data <- read.csv("NBA_Stats_22_23.csv")
head(nba_data)
```

```
##           PLAYER TEAM AGE GP  W  L    MIN  PTS  FGM  FGA  X3PM  X3PA  FTM  FTA
## 1      AJ Griffin  ATL  19 72 34 38 1401.4  639 248 533   101  259  42  47
## 2    Aaron Holiday  ATL  26 63 32 31  845.3  247  92 220    36   88  27  32
## 3 Bogdan Bogdanovic  ATL  30 54 27 27 1508.6  756 273 611   146  360  64  77
## 4    Bruno Fernando  ATL  24 39 13 26  405.1  153  59 112     0    4  35  50
## 5      Clint Capela  ATL  29 65 35 30 1730.1  779 350 536     0    1  79 131
## 6  De'Andre Hunter  ATL  25 67 35 32 2125.6 1029 379 822   100  286 171 207
##   OREB DREB REB AST TOV STL BLK  PF  FP DD2 TD3
## 1   37  116 153  73  42  42  12  87 1052   0   0
## 2   25   49  74  89  36  37  12  79  580   0   0
## 3   23  142 165 150  65  43  18  86 1297   0   0
## 4   54   83 137  31  25   6  34  74  459   1   0
## 5  258  459 717  58  54  45  79 139 2044  35   0
## 6   46  238 284  94  82  35  17 199 1585   1   0
```

## 1.a. Count the number of players with Free Throws Made greater than 60 and Assists greater than 80

```
nba_data %>% filter(FGM > 60, AST > 80)
```

##	PLAYER	TEAM	AGE	GP	W	L	MIN	PTS	FGM	FGA	X3PM	X3PA
## 1	Aaron Holiday	ATL	26	63	32	31	845.3	247	92	220	36	88
## 2	Bogdan Bogdanovic	ATL	30	54	27	27	1508.6	756	273	611	146	360
## 3	De'Andre Hunter	ATL	25	67	35	32	2125.6	1029	379	822	100	286
## 4	Dejounte Murray	ATL	26	74	38	36	2693.4	1515	612	1319	133	387
## 5	Jalen Johnson	ATL	21	70	35	35	1041.6	395	158	322	30	104
## 6	John Collins	ATL	25	71	37	34	2129.6	931	359	707	70	240
## 7	Onyeka Okongwu	ATL	22	80	41	39	1848.6	791	317	497	4	13
## 8	Saddiq Bey	ATL	24	77	24	53	2128.7	1062	353	836	151	418
## 9	Trae Young	ATL	24	73	38	35	2540.7	1914	597	1390	154	460
## 10	Ben Simmons	BKN	26	42	24	18	1105.0	291	133	235	0	2
## 11	Dorian Finney-Smith	BKN	30	66	31	35	2008.8	551	196	501	114	338
## 12	Joe Harris	BKN	31	74	40	34	1527.2	562	201	440	142	333
## 13	Mikal Bridges	BKN	26	83	42	41	2963.2	1671	593	1267	169	442
## 14	Nic Claxton	BKN	24	76	41	35	2270.7	961	414	587	0	2
## 15	Royce O'Neale	BKN	30	76	42	34	2409.2	671	229	593	163	419
## 16	Seth Curry	BKN	32	61	37	24	1210.7	561	208	449	94	232
## 17	Spencer Dinwiddie	BKN	30	79	41	38	2725.3	1369	460	1050	181	490
## 18	Al Horford	BOS	37	63	44	19	1921.4	616	228	479	145	325
## 19	Derrick White	BOS	28	82	57	25	2319.3	1017	350	758	149	391
## 20	Grant Williams	BOS	24	79	55	24	2044.8	641	216	476	115	291
## 21	Jaylen Brown	BOS	26	67	46	21	2404.9	1784	679	1383	163	487
## 22	Jayson Tatum	BOS	25	74	52	22	2732.2	2225	727	1559	240	686
## 23	Malcolm Brogdon	BOS	30	67	46	21	1743.8	1000	354	732	132	297
## 24	Marcus Smart	BOS	29	61	43	18	1956.8	703	250	602	115	342
## 25	Dennis Smith Jr.	CHA	25	54	19	35	1389.8	474	186	452	24	111
## 26	Gordon Hayward	CHA	33	50	20	30	1576.9	733	276	581	52	160
## 27	LaMelo Ball	CHA	21	36	13	23	1267.8	838	296	721	144	383
## 28	P.J. Washington	CHA	24	73	24	49	2379.6	1144	434	978	149	428
## 29	Terry Rozier	CHA	29	63	19	44	2220.9	1329	493	1188	165	505
## 30	Theo Maledon	CHA	22	44	14	30	853.7	295	102	254	28	95
## 31	Alex Caruso	CHI	29	67	33	34	1575.4	374	130	286	55	151
## 32	Ayo Dosunmu	CHI	23	80	40	40	2097.6	687	281	570	59	189
## 33	Coby White	CHI	23	74	37	37	1730.2	715	263	594	128	344
## 34	DeMar DeRozan	CHI	33	74	37	37	2681.6	1816	657	1303	46	142
## 35	Nikola Vucevic	CHI	32	82	40	42	2746.4	1447	597	1148	121	347
## 36	Patrick Beverley	CHI	34	67	34	33	1816.5	415	144	360	80	239
## 37	Patrick Williams	CHI	21	82	40	42	2322.8	833	314	677	115	277
## 38	Zach LaVine	CHI	28	77	38	39	2767.9	1913	673	1388	204	544
## 39	Caris LeVert	CLE	28	74	45	29	2237.3	897	320	742	127	324
## 40	Cedi Osman	CLE	28	77	48	29	1548.3	669	239	530	116	312
## 41	Darius Garland	CLE	23	69	40	29	2447.2	1490	522	1129	169	412
## 42	Donovan Mitchell	CLE	26	68	44	24	2432.4	1922	679	1402	245	635
## 43	Evan Mobley	CLE	22	79	48	31	2715.3	1277	525	947	22	102
## 44	Isaac Okoro	CLE	22	76	48	28	1652.6	490	175	354	62	171
## 45	Jarrett Allen	CLE	25	68	44	24	2220.1	969	403	626	1	10
## 46	Ricky Rubio	CLE	32	33	23	10	566.0	171	61	178	21	82
## 47	Christian Wood	DAL	27	67	33	34	1738.4	1114	396	769	105	279
## 48	Josh Green	DAL	22	60	27	33	1539.2	546	205	382	68	169
## 49	Kyrie Irving	DAL	31	60	32	28	2240.6	1623	594	1203	188	496
## 50	Luka Doncic	DAL	24	66	33	33	2390.5	2138	719	1449	185	541
## 51	Reggie Bullock	DAL	32	78	37	41	2364.5	561	192	470	151	397

## 52	Tim Hardaway Jr.	DAL	31	71	37	34	2152.2	1019	340	847	212	550
## 53	Aaron Gordon	DEN	27	68	45	23	2055.1	1109	429	761	60	173
## 54	Bruce Brown	DEN	26	80	53	27	2279.5	923	358	741	91	254
## 55	Jamal Murray	DEN	26	65	43	22	2133.4	1298	473	1041	172	432
## 56	Kentavious Caldwell-Pope	DEN	30	76	51	25	2381.2	822	292	632	135	319
## 57	Nikola Jokic	DEN	28	69	48	21	2323.0	1690	646	1022	57	149
## 58	Reggie Jackson	DEN	33	68	36	32	1656.9	693	263	640	96	288
## 59	Alec Burks	DET	31	51	12	39	1122.4	652	200	459	99	239
## 60	Bojan Bogdanovic	DET	34	59	15	44	1892.9	1273	430	882	145	353
## 61	Cory Joseph	DET	31	62	12	50	1227.4	427	150	351	70	180
## 62	Jaden Ivey	DET	21	74	16	58	2304.3	1204	409	983	120	350
## 63	Killian Hayes	DET	21	76	16	60	2153.6	786	307	815	80	286
## 64	Andrew Wiggins	GSW	28	37	19	18	1190.3	633	250	529	89	225
## 65	Anthony Lamb	GSW	25	62	36	26	1195.0	415	148	314	73	199
## 66	Donte DiVincenzo	GSW	26	72	42	30	1894.4	678	235	540	150	378
## 67	Draymond Green	GSW	33	73	41	32	2297.6	617	250	474	40	131
## 68	Jonathan Kuminga	GSW	20	67	38	29	1394.4	666	261	497	54	146
## 69	Jordan Poole	GSW	24	82	44	38	2458.1	1675	550	1278	214	637
## 70	Kevon Looney	GSW	27	82	44	38	1957.6	578	242	384	0	1
## 71	Klay Thompson	GSW	33	69	38	31	2278.9	1509	546	1252	301	731
## 72	Stephen Curry	GSW	35	56	30	26	1941.2	1648	559	1133	273	639
## 73	Ty Jerome	GSW	25	45	22	23	815.6	309	118	242	35	90
## 74	Alperen Sengun	HOU	20	75	18	57	2170.7	1109	442	799	19	57
## 75	Daishen Nix	HOU	21	57	15	42	914.4	226	81	237	40	140
## 76	Jabari Smith Jr.	HOU	20	79	21	58	2450.5	1010	364	892	120	391
## 77	Jae'Sean Tate	HOU	27	31	7	24	677.5	283	110	229	13	46
## 78	Jalen Green	HOU	21	76	20	56	2602.2	1683	566	1359	187	554
## 79	Kenyon Martin Jr.	HOU	22	82	22	60	2292.2	1039	410	720	68	216
## 80	Kevin Porter Jr.	HOU	23	59	18	41	2023.9	1130	391	884	141	385
## 81	Tari Eason	HOU	22	82	22	60	1767.2	760	296	660	59	172
## 82	Aaron Nesmith	IND	23	73	30	43	1816.4	738	252	590	115	314
## 83	Andrew Nembhard	IND	23	75	32	43	2073.5	709	284	644	92	263
## 84	Bennedict Mathurin	IND	21	78	33	45	2222.4	1302	413	951	100	310
## 85	Buddy Hield	IND	30	80	35	45	2481.9	1344	475	1038	288	677
## 86	George Hill	IND	37	46	27	19	833.3	232	78	166	34	95
## 87	Jordan Nwora	IND	24	62	36	26	1188.1	542	194	445	86	211
## 88	Myles Turner	IND	27	62	29	33	1825.2	1113	402	733	93	249
## 89	T.J. McConnell	IND	31	75	31	44	1526.4	650	283	521	26	59
## 90	Tyrese Haliburton	IND	23	56	28	28	1882.9	1160	412	841	161	402
## 91	Bones Hyland	LAC	22	56	36	20	1085.5	659	228	571	117	315
## 92	Eric Gordon	LAC	34	69	25	44	1965.5	856	291	653	132	356
## 93	John Wall	LAC	32	34	15	19	754.7	386	138	339	33	109
## 94	Kawhi Leonard	LAC	32	52	33	19	1747.5	1239	446	871	104	250
## 95	Marcus Morris Sr.	LAC	33	65	35	30	1825.1	728	274	643	112	307
## 96	Mason Plumlee	LAC	33	79	28	51	2052.9	857	329	484	0	0
## 97	Nicolas Batum	LAC	34	78	44	34	1709.6	478	160	381	124	317
## 98	Norman Powell	LAC	30	60	31	29	1567.1	1019	340	710	114	287
## 99	Paul George	LAC	33	56	32	24	1938.9	1332	459	1004	158	426
## 100	Russell Westbrook	LAC	34	73	36	37	2125.8	1159	432	991	89	286
## 101	Terance Mann	LAC	26	81	44	37	1872.2	713	272	524	77	198
## 102	Anthony Davis	LAL	30	56	31	25	1904.5	1451	542	962	19	74
## 103	Austin Reaves	LAL	25	64	35	29	1843.2	833	259	490	86	216

## 104	D'Angelo Russell	LAL	27	71	39	32	2304.1	1263	445	948	194	490
## 105	Dennis Schroder	LAL	29	66	37	29	1985.9	830	270	650	74	225
## 106	Jarred Vanderbilt	LAL	24	78	43	35	1879.7	619	247	451	29	90
## 107	LeBron James	LAL	38	55	30	25	1953.9	1590	609	1219	121	377
## 108	Malik Beasley	LAL	26	81	45	36	2093.1	1025	370	937	235	658
## 109	Troy Brown Jr.	LAL	23	76	40	36	1859.8	541	200	465	107	281
## 110	Desmond Bane	MEM	25	58	38	20	1841.5	1247	450	939	166	407
## 111	Dillon Brooks	MEM	27	73	46	27	2214.3	1047	392	991	143	439
## 112	Ja Morant	MEM	23	61	40	21	1948.3	1596	566	1214	92	300
## 113	John Konchar	MEM	27	72	45	27	1493.8	364	138	320	60	177
## 114	Luke Kennard	MEM	27	59	37	22	1315.1	546	188	382	133	269
## 115	Santi Aldama	MEM	22	77	47	30	1681.7	696	247	525	94	266
## 116	Steven Adams	MEM	29	42	28	14	1133.3	361	157	263	0	1
## 117	Tyus Jones	MEM	27	80	51	29	1939.4	822	311	710	121	326
## 118	Xavier Tillman	MEM	24	61	40	21	1180.1	429	188	306	4	15
## 119	Bam Adebayo	MIA	25	75	40	35	2598.0	1529	602	1114	1	12
## 120	Caleb Martin	MIA	27	71	38	33	2077.7	683	254	548	84	236
## 121	Gabe Vincent	MIA	27	68	37	31	1758.7	641	228	567	117	350
## 122	Jimmy Butler	MIA	33	64	35	29	2138.0	1466	479	888	36	103
## 123	Kevin Love	MIA	34	62	35	27	1239.5	509	165	424	99	296
## 124	Kyle Lowry	MIA	37	55	30	25	1717.7	615	196	485	107	310
## 125	Max Strus	MIA	27	80	42	38	2272.0	923	324	790	197	563
## 126	Tyler Herro	MIA	23	67	37	30	2335.4	1347	487	1109	203	537
## 127	Victor Oladipo	MIA	31	42	23	19	1105.6	449	160	403	70	212
## 128	Bobby Portis	MIL	28	70	47	23	1818.4	987	398	803	95	257
## 129	Brook Lopez	MIL	35	78	57	21	2372.5	1239	477	899	136	364
## 130	Giannis Antetokounmpo	MIL	28	63	47	16	2023.6	1959	707	1278	47	171
## 131	Goran Dragic	MIL	37	58	27	31	870.0	365	141	335	52	145
## 132	Grayson Allen	MIL	27	72	53	19	1972.1	750	245	557	146	366
## 133	Jevon Carter	MIL	27	81	57	24	1811.8	651	239	565	142	337
## 134	Joe Ingles	MIL	35	46	32	14	1043.5	317	108	248	83	203
## 135	Jrue Holiday	MIL	33	67	50	17	2182.5	1290	490	1023	158	411
## 136	Khris Middleton	MIL	31	33	25	8	800.8	497	177	406	51	162
## 137	Anthony Edwards	MIN	21	79	40	39	2841.5	1946	707	1541	213	578
## 138	Jaden McDaniels	MIN	22	79	41	38	2416.5	953	370	716	107	269
## 139	Jaylen Nowell	MIN	23	65	34	31	1251.7	704	280	625	67	232
## 140	Jordan McLaughlin	MIN	27	43	22	21	678.5	161	61	145	24	78
## 141	Karl-Anthony Towns	MIN	27	29	15	14	957.0	602	212	428	60	164
## 142	Kyle Anderson	MIN	29	69	36	33	1956.6	647	252	495	43	105
## 143	Mike Conley	MIN	35	67	34	33	2028.1	798	261	610	135	351
## 144	Nickeil Alexander-Walker	MIN	24	59	29	30	883.9	363	131	295	61	159
## 145	Rudy Gobert	MIN	31	70	34	36	2148.5	939	360	546	0	3
## 146	Taurean Prince	MIN	29	54	31	23	1192.5	493	177	379	74	194
## 147	Brandon Ingram	NOP	25	45	23	22	1538.1	1112	404	835	64	164
## 148	CJ McCollum	NOP	31	75	38	37	2649.2	1568	587	1344	211	543
## 149	Dyson Daniels	NOP	20	59	33	26	1042.1	227	87	208	27	86
## 150	Herbert Jones	NOP	24	66	31	35	1950.5	649	235	501	56	167
## 151	Jonas Valanciunas	NOP	31	79	40	39	1968.2	1115	446	816	38	109
## 152	Jose Alvarado	NOP	25	61	30	31	1310.0	550	201	489	83	247
## 153	Josh Richardson	NOP	29	65	24	41	1529.6	654	239	554	107	293
## 154	Larry Nance Jr.	NOP	30	65	34	31	1380.8	441	186	305	14	42
## 155	Naji Marshall	NOP	25	77	40	37	1792.0	698	247	571	66	218

## 156	Trey Murphy III	NOP	23	79	39	40	2448.0	1148	387	800	202	497
## 157	Zion Williamson	NOP	22	29	17	12	956.1	754	285	469	7	19
## 158	Immanuel Quickley	NYK	24	81	47	34	2344.1	1209	419	936	168	454
## 159	Isaiah Hartenstein	NYK	25	82	47	35	1628.2	406	175	327	8	37
## 160	Jalen Brunson	NYK	26	68	40	28	2378.7	1633	587	1195	134	322
## 161	Josh Hart	NYK	28	76	42	34	2454.0	743	275	520	61	164
## 162	Julius Randle	NYK	28	77	44	33	2737.3	1936	658	1432	218	636
## 163	Quentin Grimes	NYK	23	71	41	30	2120.9	799	282	602	157	407
## 164	RJ Barrett	NYK	23	73	40	33	2475.5	1431	510	1176	121	390
## 165	Isaiah Joe	OKC	23	73	36	37	1395.3	691	224	508	161	394
## 166	Jalen Williams	OKC	22	75	36	39	2275.6	1056	414	794	73	205
## 167	Josh Giddey	OKC	20	76	34	42	2367.3	1260	539	1118	76	234
## 168	Kenrich Williams	OKC	28	53	26	27	1206.0	425	179	346	50	134
## 169	Luguentz Dort	OKC	24	74	36	38	2272.4	1013	339	873	135	409
## 170	Shai Gilgeous-Alexander	OKC	24	68	33	35	2416.0	2135	704	1381	58	168
## 171	Tre Mann	OKC	22	67	31	36	1183.4	517	197	501	81	257
## 172	Cole Anthony	ORL	23	60	28	32	1551.8	781	277	610	75	206
## 173	Franz Wagner	ORL	21	80	33	47	2608.7	1485	542	1118	130	360
## 174	Jalen Suggs	ORL	22	53	20	33	1245.9	524	186	444	66	202
## 175	Markelle Fultz	ORL	25	60	29	31	1777.9	837	349	679	27	87
## 176	Moritz Wagner	ORL	26	57	27	30	1109.5	600	198	396	51	163
## 177	Paolo Banchero	ORL	20	72	31	41	2429.7	1437	479	1122	85	285
## 178	Wendell Carter Jr.	ORL	24	57	26	31	1689.5	868	322	613	80	225
## 179	De'Anthony Melton	PHI	25	77	50	27	2149.8	780	277	651	157	403
## 180	Jalen McDaniels	PHI	25	80	31	49	1912.9	755	281	617	77	232
## 181	James Harden	PHI	33	58	39	19	2135.0	1216	371	842	161	418
## 182	Joel Embiid	PHI	29	66	43	23	2284.1	2183	728	1328	66	200
## 183	Shake Milton	PHI	26	76	52	24	1567.4	637	241	503	56	148
## 184	Tobias Harris	PHI	30	74	47	27	2435.9	1085	423	845	126	324
## 185	Tyrese Maxey	PHI	22	60	39	21	2015.8	1218	439	913	160	369
## 186	Cameron Payne	PHX	28	48	27	21	968.3	493	188	453	68	185
## 187	Chris Paul	PHX	38	59	33	26	1888.6	819	294	668	98	261
## 188	Damion Lee	PHX	30	74	40	34	1506.3	604	200	452	110	247
## 189	Deandre Ayton	PHX	24	67	36	31	2035.3	1203	522	887	7	24
## 190	Devin Booker	PHX	26	53	34	19	1835.4	1471	527	1067	111	316
## 191	Josh Okogie	PHX	24	72	38	34	1350.6	529	162	414	66	197
## 192	Kevin Durant	PHX	34	47	34	13	1671.8	1366	483	862	93	230
## 193	Landry Shamet	PHX	26	40	19	21	806.9	346	113	300	75	199
## 194	Terrence Ross	PHX	32	63	27	36	1330.5	522	200	465	95	258
## 195	Torrey Craig	PHX	32	79	44	35	1947.8	588	228	500	100	253
## 196	Anfernee Simons	POR	24	62	27	35	2170.7	1306	467	1045	212	562
## 197	Damian Lillard	POR	32	58	27	31	2106.6	1866	556	1202	244	658
## 198	Drew Eubanks	POR	26	78	31	47	1583.7	518	214	334	7	18
## 199	Jerami Grant	POR	29	63	28	35	2245.5	1290	434	913	144	359
## 200	Justise Winslow	POR	27	29	15	14	775.8	196	81	198	14	45
## 201	Jusuf Nurkic	POR	28	52	24	28	1391.4	694	262	505	43	119
## 202	Shaedon Sharpe	POR	20	80	32	48	1778.6	789	306	648	102	283
## 203	Trendon Watford	POR	22	62	26	36	1181.6	459	181	323	25	64
## 204	Davion Mitchell	SAC	24	80	47	33	1447.0	450	181	399	63	197
## 205	De'Aaron Fox	SAC	25	73	44	29	2435.2	1826	682	1331	119	367
## 206	Domantas Sabonis	SAC	27	79	47	32	2735.6	1510	577	938	31	83
## 207	Harrison Barnes	SAC	31	82	48	34	2662.0	1230	374	791	132	353

## 208	Keegan Murray	SAC	22	80	47	33	2381.7	976	354	782	206	501
## 209	Kevin Huerter	SAC	24	75	44	31	2202.8	1140	420	866	205	510
## 210	Malik Monk	SAC	25	77	47	30	1719.2	1041	357	796	143	398
## 211	Blake Wesley	SAS	20	37	9	28	669.1	184	69	215	20	52
## 212	Devin Vassell	SAS	22	38	12	26	1178.1	703	261	595	103	266
## 213	Devonte' Graham	SAS	28	73	31	42	1338.4	539	161	431	119	338
## 214	Doug McDermott	SAS	31	64	19	45	1314.2	654	239	523	123	298
## 215	Jeremy Sochan	SAS	20	56	15	41	1457.7	614	250	552	33	134
## 216	Keita Bates-Diop	SAS	27	67	18	49	1452.6	647	236	465	56	142
## 217	Keldon Johnson	SAS	23	63	17	46	2063.3	1385	503	1113	134	407
## 218	Malaki Branham	SAS	20	66	15	51	1549.6	673	269	611	77	255
## 219	Tre Jones	SAS	23	68	20	48	1983.7	875	341	743	45	158
## 220	Zach Collins	SAS	25	63	20	43	1440.6	731	284	548	55	147
## 221	Fred VanVleet	TOR	29	69	34	35	2535.0	1335	437	1112	207	606
## 222	Gary Trent Jr.	TOR	24	66	31	35	2118.0	1148	405	935	166	450
## 223	Jakob Poeltl	TOR	27	72	26	46	1906.1	897	389	618	0	1
## 224	O.G. Anunoby	TOR	25	67	33	34	2385.7	1124	421	885	142	367
## 225	Pascal Siakam	TOR	29	71	35	36	2652.0	1720	630	1313	93	287
## 226	Scottie Barnes	TOR	21	77	38	39	2677.6	1179	463	1016	63	224
## 227	Will Barton	TOR	32	56	27	29	993.0	379	138	364	66	180
## 228	Collin Sexton	UTA	24	48	24	24	1145.2	685	237	468	48	122
## 229	Jordan Clarkson	UTA	31	61	30	31	1988.3	1271	458	1031	155	459
## 230	Kelly Olynyk	UTA	32	68	28	40	1941.6	847	278	557	93	236
## 231	Kris Dunn	UTA	29	22	8	14	567.5	290	116	216	17	36
## 232	Lauri Markkanen	UTA	26	66	32	34	2272.5	1691	571	1144	200	510
## 233	Talen Horton-Tucker	UTA	22	65	30	35	1313.2	698	257	613	58	203
## 234	Bradley Beal	WAS	30	50	24	26	1672.9	1160	444	878	80	219
## 235	Corey Kispert	WAS	24	74	31	43	2093.3	820	291	585	163	384
## 236	Daniel Gafford	WAS	24	78	32	46	1604.2	705	289	395	0	0
## 237	Delon Wright	WAS	31	50	26	24	1221.2	369	138	291	41	119
## 238	Deni Avdija	WAS	22	76	33	43	2020.4	697	253	579	69	232
## 239	Jordan Goodwin	WAS	24	62	22	40	1105.4	407	158	353	38	118
## 240	Kendrick Nunn	WAS	27	70	30	40	963.4	496	191	450	79	223
## 241	Kristaps Porzingis	WAS	27	65	27	38	2119.5	1505	507	1018	137	356
## 242	Kyle Kuzma	WAS	27	64	29	35	2238.9	1357	512	1142	160	481
## 243	Monte Morris	WAS	28	62	28	34	1696.1	636	247	515	78	204

##	FTM	FTA	OREB	DREB	REB	AST	TOV	STL	BLK	PF	FP	DD2	TD3
## 1	27	32	25	49	74	89	36	37	12	79	580	0	0
## 2	64	77	23	142	165	150	65	43	18	86	1297	0	0
## 3	171	207	46	238	284	94	82	35	17	199	1585	1	0
## 4	158	190	53	336	389	448	160	112	19	106	2887	8	1
## 5	49	78	51	231	282	83	41	38	34	113	1033	1	0
## 6	143	178	77	385	462	85	79	42	73	220	1879	11	0
## 7	153	196	217	359	576	81	81	56	107	251	2012	12	0
## 8	205	238	98	264	362	118	71	70	13	123	1851	4	0
## 9	566	639	56	161	217	741	300	80	9	104	3253	40	0
## 10	25	57	40	223	263	256	97	54	24	139	1128	4	1
## 11	45	59	114	202	316	100	62	55	36	144	1291	2	0
## 12	18	28	23	141	164	101	41	34	13	140	1010	0	0
## 13	316	353	79	285	364	273	127	91	61	159	2846	2	0
## 14	133	246	184	518	702	144	96	65	189	212	2685	28	0
## 15	50	69	55	329	384	283	114	65	49	239	1784	4	1

##	16	51	55	13	87	100	99	51	36	7	96	908	0	0
##	17	268	330	28	242	270	515	145	67	24	187	2594	9	0
##	18	15	21	73	317	390	189	37	30	61	121	1604	7	0
##	19	168	192	52	241	293	321	95	54	76	177	2145	7	0
##	20	94	122	87	276	363	131	82	41	31	192	1407	3	0
##	21	263	344	78	381	459	232	197	75	26	172	2789	13	0
##	22	531	622	78	571	649	342	213	78	51	160	3691	31	1
##	23	160	184	42	238	280	248	98	45	18	109	1799	0	0
##	24	88	118	46	145	191	382	143	93	23	172	1710	6	0
##	25	78	106	27	140	167	261	82	75	25	122	1284	1	0
##	26	129	159	33	182	215	206	99	42	12	70	1363	2	0
##	27	102	121	42	189	231	304	129	46	11	118	1613	17	3
##	28	127	174	73	285	358	175	110	66	79	193	2161	3	0
##	29	178	220	51	208	259	319	134	74	16	119	2254	1	0
##	30	63	74	14	109	123	152	59	37	12	61	759	1	0
##	31	59	73	42	154	196	193	77	98	46	159	1254	1	0
##	32	66	82	45	175	220	206	99	62	26	182	1425	0	0
##	33	61	70	16	196	212	204	74	54	6	122	1381	1	0
##	34	456	523	34	309	343	377	153	83	36	186	2997	6	0
##	35	132	158	159	744	903	265	139	60	57	179	3140	51	1
##	36	47	65	44	203	247	194	60	63	41	187	1254	2	0
##	37	90	105	78	249	327	100	101	72	70	147	1700	1	0
##	38	363	428	42	303	345	327	194	69	18	159	2885	2	0
##	39	130	180	53	229	282	287	116	72	24	170	1838	1	0
##	40	75	108	25	151	176	115	52	35	11	122	1139	1	0
##	41	277	321	28	157	185	538	199	85	9	148	2602	18	0
##	42	319	368	63	226	289	301	180	99	27	168	2918	5	0
##	43	205	304	187	524	711	224	146	60	119	218	2857	24	0
##	44	78	103	52	135	187	87	42	56	30	158	1061	0	0
##	45	162	221	221	445	666	113	93	54	84	153	2259	32	0
##	46	28	35	9	61	70	115	31	26	6	51	493	0	0
##	47	217	281	87	404	491	121	121	30	72	169	2070	12	0
##	48	68	94	55	127	182	103	72	42	5	156	988	1	0
##	49	247	273	59	245	304	331	128	66	45	165	2689	5	0
##	50	515	694	54	515	569	529	236	90	33	166	3747	36	10
##	51	26	37	32	251	283	108	36	54	13	166	1228	1	0
##	52	127	165	21	230	251	129	60	49	12	120	1637	0	0
##	53	191	314	164	282	446	203	98	54	51	129	2166	11	0
##	54	116	153	63	265	328	268	123	87	51	190	2010	3	1
##	55	180	216	48	209	257	400	145	66	16	103	2307	5	1
##	56	103	125	35	173	208	183	86	112	35	145	1701	0	0
##	57	341	415	167	650	817	678	247	87	47	174	3842	58	29
##	58	71	78	25	119	144	233	115	47	6	114	1259	1	0
##	59	153	188	19	139	158	114	58	38	8	98	1093	0	0
##	60	268	303	36	187	223	152	135	34	8	113	1760	0	0
##	61	57	72	21	85	106	217	56	34	9	88	953	0	0
##	62	266	356	73	215	288	387	237	61	17	242	2127	8	0
##	63	92	112	28	193	221	470	173	104	28	219	1979	6	0
##	64	44	72	61	125	186	85	48	45	28	107	1155	3	0
##	65	46	60	56	159	215	96	54	28	20	134	907	0	0
##	66	58	71	80	245	325	252	112	97	10	133	1655	4	0
##	67	77	108	66	459	525	500	204	74	61	229	2198	11	0



## 68	90	138	70	161	231	125	95	41	31	157	1252	1	0
## 69	361	415	32	193	225	369	252	63	21	214	2499	1	0
## 70	94	155	274	486	760	207	45	52	50	224	2062	14	0
## 71	116	132	39	247	286	163	123	49	29	130	2208	2	0
## 72	257	281	39	302	341	352	179	52	20	117	2622	12	1
## 73	38	41	7	71	78	135	30	23	5	64	659	0	0
## 74	206	288	242	436	678	291	193	70	70	258	2586	29	2
## 75	24	36	18	80	98	132	86	31	7	59	570	0	0
## 76	162	206	122	447	569	101	104	43	74	227	2091	16	0
## 77	50	69	41	77	118	84	47	21	7	106	588	0	0
## 78	364	463	43	241	284	281	200	59	18	131	2476	0	0
## 79	151	222	126	326	452	123	91	41	30	147	1888	5	0
## 80	207	264	76	238	314	338	188	82	17	156	2123	9	1
## 81	109	145	195	301	496	88	101	96	47	189	1815	7	0
## 82	119	142	62	215	277	98	75	55	34	235	1409	1	0
## 83	49	62	35	164	199	341	126	70	13	179	1582	5	0
## 84	376	454	87	231	318	116	152	48	13	162	1889	0	0
## 85	106	129	67	333	400	225	139	92	26	156	2377	3	0
## 86	42	55	15	70	85	110	34	26	6	55	561	0	0
## 87	68	86	51	178	229	88	66	24	14	74	997	1	0
## 88	216	276	88	378	466	89	103	36	140	215	2231	18	0
## 89	58	68	45	189	234	397	143	81	10	105	1656	6	1
## 90	175	201	33	172	205	585	141	91	25	69	2491	32	0
## 91	86	102	20	115	135	172	82	39	15	96	1159	1	0
## 92	142	173	16	118	134	183	104	43	25	78	1391	0	0
## 93	77	113	14	78	92	178	80	27	12	59	800	1	0
## 94	243	279	57	281	338	204	88	72	28	84	2163	4	0
## 95	68	87	29	229	258	114	56	42	21	136	1342	2	0
## 96	199	313	229	471	700	245	117	46	47	217	2227	23	0
## 97	34	48	62	237	299	121	50	54	44	149	1262	0	0
## 98	225	277	24	151	175	109	101	50	18	125	1496	0	0
## 99	256	294	45	297	342	288	176	83	20	159	2307	8	1
## 100	206	314	89	334	423	551	255	76	33	162	2565	24	4
## 101	92	118	77	199	276	184	80	42	22	149	1432	1	0
## 102	348	444	195	507	702	148	122	59	114	146	2912	40	0
## 103	229	265	33	160	193	215	99	33	19	108	1444	1	0
## 104	179	216	35	180	215	437	186	70	29	140	2288	9	0
## 105	216	252	21	144	165	298	112	50	10	145	1543	2	0
## 106	96	139	170	412	582	184	97	83	21	190	1808	10	0
## 107	251	327	65	392	457	375	178	50	32	88	2769	18	2
## 108	50	65	35	248	283	124	90	65	9	107	1683	1	0
## 109	34	39	62	246	308	95	49	59	16	120	1229	2	0
## 110	181	205	43	248	291	254	126	56	22	150	2085	1	0
## 111	120	154	45	199	244	189	104	65	16	240	1762	0	0
## 112	372	497	61	296	357	493	206	66	16	100	2804	20	7
## 113	28	36	64	246	310	100	37	77	25	112	1155	2	0
## 114	37	39	15	143	158	91	46	32	5	82	937	0	0
## 115	108	144	85	286	371	97	60	45	48	143	1506	4	0
## 116	47	129	214	271	485	97	79	36	46	98	1256	15	0
## 117	79	98	28	172	200	417	74	83	6	32	1881	9	1
## 118	49	89	121	186	307	96	44	58	29	97	1158	4	0
## 119	324	402	184	504	688	240	187	88	61	208	2975	31	0

##	120	91	113	88	256	344	117	79	71	31	145	1498	2	0
##	121	68	78	27	118	145	167	92	62	5	154	1175	0	0
##	122	472	555	141	234	375	340	101	117	21	80	2739	11	0
##	123	80	91	59	340	399	116	70	16	12	97	1176	6	0
##	124	116	135	43	182	225	281	103	57	21	143	1438	2	1
##	125	78	89	49	209	258	171	69	42	12	166	1582	2	0
##	126	170	182	27	333	360	280	158	51	16	101	2242	6	1
##	127	59	79	16	112	128	146	87	57	12	99	942	0	0
##	128	96	125	154	518	672	105	81	29	16	115	2005	38	0
##	129	149	190	157	363	520	99	107	37	193	203	2595	11	0
##	130	498	772	137	605	742	359	246	52	51	197	3451	46	6
##	131	31	45	16	65	81	151	63	13	4	65	677	0	0
##	132	114	126	61	176	237	163	72	62	14	117	1435	0	0
##	133	31	38	35	167	202	197	78	66	29	158	1396	1	0
##	134	18	21	13	115	128	150	55	33	6	74	758	1	0
##	135	152	177	79	262	341	495	197	79	25	116	2557	16	0
##	136	92	102	28	112	140	163	71	23	5	68	923	4	0
##	137	319	422	47	411	458	350	259	125	58	186	3311	9	0
##	138	106	144	92	215	307	148	112	74	76	272	1881	0	0
##	139	77	99	36	134	170	132	65	42	5	101	1182	0	0
##	140	15	18	15	47	62	148	33	32	4	28	532	0	0
##	141	118	135	48	188	236	140	86	20	17	111	1120	9	0
##	142	100	136	66	302	368	335	103	78	63	146	1911	10	3
##	143	141	169	33	149	182	450	103	73	14	139	1849	6	0
##	144	40	60	15	86	101	108	55	32	21	88	750	0	0
##	145	219	340	231	583	814	87	122	56	95	210	2377	35	0
##	146	65	77	15	117	132	84	69	28	15	123	837	0	0
##	147	240	272	23	223	246	262	148	32	19	116	1805	6	2
##	148	183	238	55	273	328	429	183	70	38	153	2746	6	0
##	149	26	40	36	152	188	134	57	43	11	99	759	0	0
##	150	123	161	97	172	269	162	88	103	42	208	1562	0	0
##	151	185	224	225	579	804	140	159	20	52	245	2347	43	0
##	152	65	80	28	113	141	186	81	67	10	125	1148	0	0
##	153	69	81	41	134	175	174	86	69	20	117	1306	1	0
##	154	55	79	106	248	354	119	42	56	37	133	1281	3	0
##	155	138	175	48	231	279	189	97	54	14	113	1423	0	0
##	156	172	190	59	222	281	112	61	89	43	155	1988	1	0
##	157	177	248	58	144	202	133	99	32	16	65	1241	5	0
##	158	203	248	58	279	337	279	100	80	14	166	2214	4	0
##	159	48	71	209	327	536	102	66	53	64	213	1487	2	0
##	160	325	392	40	201	241	421	142	61	15	152	2640	5	0
##	161	132	176	142	451	593	290	117	88	21	195	2100	10	0
##	162	402	531	141	626	767	316	216	49	21	233	3324	40	0
##	163	78	98	49	180	229	150	69	47	26	177	1449	0	0
##	164	290	392	60	308	368	201	164	31	15	179	2148	3	0
##	165	82	100	27	148	175	88	39	48	8	105	1162	0	0
##	166	155	191	84	253	337	248	123	103	35	191	2123	3	0
##	167	106	145	148	451	599	469	211	57	31	143	2735	28	4
##	168	17	39	97	164	261	105	32	45	14	112	1041	2	0
##	169	200	259	128	216	344	154	92	75	23	243	1859	5	0
##	170	669	739	59	270	329	371	192	112	65	192	3425	3	0
##	171	42	55	27	128	155	120	62	40	11	99	974	1	1

##	172	152	170	47	241	288	235	91	37	31	158	1592	1	0
##	173	271	322	70	259	329	283	167	77	17	183	2419	2	0
##	174	86	119	55	106	161	155	94	67	27	120	1138	0	0
##	175	112	143	69	165	234	341	139	87	26	131	1829	3	0
##	176	153	182	69	190	259	84	68	37	13	136	1119	3	0
##	177	394	534	84	413	497	269	200	60	39	160	2534	14	0
##	178	144	195	120	377	497	132	106	30	33	159	1745	21	0
##	179	69	87	69	243	312	197	102	126	41	191	1849	0	0
##	180	116	138	63	283	346	130	93	83	34	209	1623	3	0
##	181	313	361	40	314	354	618	195	71	31	112	2679	36	5
##	182	661	771	113	557	670	274	226	66	112	205	3706	39	1
##	183	99	116	39	152	191	240	94	25	13	123	1246	3	0
##	184	113	129	67	357	424	186	89	68	40	149	2108	7	0
##	185	180	213	23	153	176	212	80	49	8	132	1838	0	0
##	186	49	64	12	94	106	214	81	33	8	88	983	3	0
##	187	133	160	27	224	251	524	114	91	22	126	2131	17	0
##	188	94	104	39	186	225	99	78	30	7	118	1056	0	0
##	189	152	200	172	495	667	115	120	37	53	190	2326	36	0
##	190	306	358	46	194	240	293	145	51	18	159	2261	5	0
##	191	139	192	109	142	251	105	63	56	34	114	1195	2	0
##	192	307	334	17	296	313	235	156	34	67	99	2241	5	1
##	193	45	51	11	56	67	93	36	26	5	61	623	0	0
##	194	27	34	22	132	154	95	43	35	10	97	941	0	0
##	195	32	45	145	281	426	117	73	50	62	179	1538	4	0
##	196	160	179	18	143	161	253	128	42	14	142	1919	0	0
##	197	510	558	44	233	277	425	191	50	18	109	2849	16	2
##	198	83	125	132	286	418	103	67	40	102	169	1533	3	0
##	199	278	342	53	230	283	150	116	51	53	152	2051	2	0
##	200	20	28	49	96	145	98	43	30	11	89	597	1	0
##	201	127	192	114	357	471	149	119	43	44	185	1625	18	0
##	202	75	105	63	173	236	94	83	38	24	136	1316	0	0
##	203	72	100	42	196	238	130	71	32	12	118	1001	3	0
##	204	25	31	16	89	105	185	62	44	15	112	969	0	0
##	205	343	440	40	266	306	447	181	83	23	172	3001	11	0
##	206	325	438	251	722	973	573	230	65	39	279	3619	65	14
##	207	350	413	87	279	366	128	86	57	10	103	1976	0	0
##	208	62	81	89	282	371	98	60	61	42	162	1817	4	0
##	209	95	131	42	209	251	221	97	80	24	181	1988	0	0
##	210	184	207	32	171	203	298	146	49	20	125	1793	0	0
##	211	26	44	12	70	82	98	65	25	5	67	454	0	0
##	212	78	100	8	140	148	136	57	43	17	57	1208	0	0
##	213	98	131	19	103	122	196	53	45	16	79	1109	0	0
##	214	53	70	23	115	138	91	58	13	6	118	955	0	0
##	215	81	116	95	200	295	142	97	43	23	138	1282	2	0
##	216	119	150	65	182	247	103	56	46	20	63	1240	0	0
##	217	245	327	56	262	318	183	134	46	11	125	2078	5	0
##	218	58	70	28	153	181	127	76	33	7	115	1125	0	0
##	219	148	172	56	189	245	448	110	89	9	98	2025	6	2
##	220	108	142	116	286	402	180	129	37	49	199	1612	9	0
##	221	254	283	30	250	280	495	140	123	38	193	2757	10	1
##	222	172	205	30	143	173	106	55	104	14	102	1814	0	0
##	223	119	201	236	417	653	197	125	66	86	195	2307	19	0

```
## 224 140 167 95 237 332 131 132 128 50 200 2121 2 0
## 225 367 474 131 425 556 415 169 65 36 228 3144 24 2
## 226 190 246 179 333 512 371 154 83 61 170 2628 15 1
## 227 37 47 15 122 137 112 48 28 13 56 786 0 0
## 228 163 199 37 68 105 138 85 27 6 112 1032 1 0
## 229 200 245 72 174 246 270 186 33 13 120 1923 3 0
## 230 198 232 82 338 420 252 168 60 37 232 1852 9 0
## 231 41 53 9 91 100 124 35 25 10 58 666 3 0
## 232 349 399 130 440 570 123 127 42 38 137 2673 28 0
## 233 126 168 41 169 210 246 126 41 29 108 1403 2 0
## 234 192 228 41 155 196 271 145 45 33 107 1891 2 0
## 235 75 88 33 174 207 87 55 32 9 97 1267 0 0
## 236 127 187 163 270 433 84 85 33 99 187 1662 10 0
## 237 52 60 58 122 180 194 44 92 17 59 1159 0 0
## 238 122 165 74 413 487 211 123 65 29 209 1757 11 0
## 239 53 69 57 148 205 168 57 58 26 95 1100 0 0
## 240 35 41 15 94 109 90 66 28 7 66 801 0 0
## 241 354 416 114 432 546 174 137 58 100 196 2758 20 0
## 242 173 237 55 408 463 239 190 36 29 145 2276 14 1
## 243 64 77 26 184 210 326 60 43 13 75 1485 2 0
```

There are 243 players with Free Throws Made greater than 60 and Assists greater than 80.

1.b. Print the PLAYER, TEAM, W, L, FGM, TOV and PTS of the players with the 10 highest points, in descending order of points. Which player has the second highest points?

```
nba_data %>% arrange(desc(PTS)) %>% select(PLAYER, TEAM, W, L, FGM, TOV, PTS) %>% slice(1:10)
```

```
##           PLAYER TEAM  W  L FGM TOV  PTS
## 1      Jayson Tatum  BOS 52 22 727 213 2225
## 2      Joel Embiid  PHI 43 23 728 226 2183
## 3      Luka Doncic  DAL 33 33 719 236 2138
## 4  Shai Gilgeous-Alexander OKC 33 35 704 192 2135
## 5   Giannis Antetokounmpo  MIL 47 16 707 246 1959
## 6    Anthony Edwards  MIN 40 39 707 259 1946
## 7    Julius Randle  NYK 44 33 658 216 1936
## 8    Donovan Mitchell  CLE 44 24 679 180 1922
## 9      Trae Young  ATL 38 35 597 300 1914
## 10   Zach LaVine  CHI 38 39 673 194 1913
```

Joel Embiid has the second highest point total at 2183

1.c. Add two new columns to the dataframe: FGP (in percentage) is the ratio of FGM to FGA, FTP (in percentage) is the ratio of FTM to FTA. What is the FGP and FTP for Joe Harris?

```
nba_data <- nba_data %>% mutate(FGP = round((FGM / FGA) * 100, 2))  
nba_data <- nba_data %>% mutate(FTP = round((FTM / FTA) * 100, 2))  
print(nba_data)
```

##	PLAYER	TEAM	AGE	GP	W	L	MIN	PTS	FGM	FGA	X3PM	X3PA
## 1	AJ Griffin	ATL	19	72	34	38	1401.4	639	248	533	101	259
## 2	Aaron Holiday	ATL	26	63	32	31	845.3	247	92	220	36	88
## 3	Bogdan Bogdanovic	ATL	30	54	27	27	1508.6	756	273	611	146	360
## 4	Bruno Fernando	ATL	24	39	13	26	405.1	153	59	112	0	4
## 5	Clint Capela	ATL	29	65	35	30	1730.1	779	350	536	0	1
## 6	De'Andre Hunter	ATL	25	67	35	32	2125.6	1029	379	822	100	286
## 7	Dejounte Murray	ATL	26	74	38	36	2693.4	1515	612	1319	133	387
## 8	Donovan Williams	ATL	21	2	1	1	4.3	4	2	5	0	2
## 9	Garrison Mathews	ATL	26	54	16	38	686.3	257	73	201	63	180
## 10	Jalen Johnson	ATL	21	70	35	35	1041.6	395	158	322	30	104
## 11	Jarrett Culver	ATL	24	10	5	5	136.9	44	17	43	1	12
## 12	John Collins	ATL	25	71	37	34	2129.6	931	359	707	70	240
## 13	Onyeka Okongwu	ATL	22	80	41	39	1848.6	791	317	497	4	13
## 14	Saddiq Bey	ATL	24	77	24	53	2128.7	1062	353	836	151	418
## 15	Trae Young	ATL	24	73	38	35	2540.7	1914	597	1390	154	460
## 16	Trent Forrest	ATL	25	23	9	14	277.0	52	25	60	0	2
## 17	Tyrese Martin	ATL	24	16	10	6	65.5	21	9	23	1	7
## 18	Vit Krejci	ATL	23	29	15	14	165.4	36	15	37	5	21
## 19	Alondes Williams	BKN	24	1	1	0	5.3	0	0	0	0	0
## 20	Ben Simmons	BKN	26	42	24	18	1105.0	291	133	235	0	2
## 21	Cam Thomas	BKN	21	57	30	27	947.6	604	201	456	51	133
## 22	Cameron Johnson	BKN	27	42	25	17	1199.8	650	223	474	103	255
## 23	David Duke Jr.	BKN	23	23	10	13	228.0	85	36	78	1	12
## 24	Day'Ron Sharpe	BKN	21	48	22	26	552.5	227	93	171	6	11
## 25	Dorian Finney-Smith	BKN	30	66	31	35	2008.8	551	196	501	114	338
## 26	Dru Smith	BKN	25	15	7	8	158.4	44	18	45	5	19
## 27	Edmond Sumner	BKN	27	53	33	20	736.2	378	124	269	31	87
## 28	Joe Harris	BKN	31	74	40	34	1527.2	562	201	440	142	333
## 29	Mikal Bridges	BKN	26	83	42	41	2963.2	1671	593	1267	169	442
## 30	Moses Brown	BKN	23	36	17	19	294.1	155	61	96	0	0
## 31	Nerlens Noel	BKN	29	17	4	13	194.7	35	13	36	1	2
## 32	Nic Claxton	BKN	24	76	41	35	2270.7	961	414	587	0	2
## 33	Patty Mills	BKN	34	40	18	22	566.6	246	86	209	49	134
## 34	RaiQuan Gray	BKN	23	1	0	1	35.1	16	6	12	2	5
## 35	Royce O'Neale	BKN	30	76	42	34	2409.2	671	229	593	163	419
## 36	Seth Curry	BKN	32	61	37	24	1210.7	561	208	449	94	232
## 37	Spencer Dinwiddie	BKN	30	79	41	38	2725.3	1369	460	1050	181	490
## 38	Yuta Watanabe	BKN	28	58	30	28	927.8	322	114	232	60	135
## 39	Al Horford	BOS	37	63	44	19	1921.4	616	228	479	145	325
## 40	Blake Griffin	BOS	34	41	27	14	568.9	170	63	130	23	66
## 41	Derrick White	BOS	28	82	57	25	2319.3	1017	350	758	149	391
## 42	Grant Williams	BOS	24	79	55	24	2044.8	641	216	476	115	291
## 43	JD Davison	BOS	20	12	11	1	65.7	19	8	19	2	7
## 44	Jaylen Brown	BOS	26	67	46	21	2404.9	1784	679	1383	163	487
## 45	Jayson Tatum	BOS	25	74	52	22	2732.2	2225	727	1559	240	686
## 46	Justin Champagne	BOS	22	5	4	1	34.3	11	5	15	1	5
## 47	Justin Jackson	BOS	28	23	15	8	107.4	20	7	27	5	20
## 48	Luke Kornet	BOS	27	69	45	24	804.1	261	113	170	3	13
## 49	Malcolm Brogdon	BOS	30	67	46	21	1743.8	1000	354	732	132	297
## 50	Marcus Smart	BOS	29	61	43	18	1956.8	703	250	602	115	342
## 51	Mfiondu Kabengele	BOS	25	4	3	1	36.4	6	2	7	0	3

## 52	Mike Muscala	BOS	31	63	32	31	945.1	383	131	292	81	207
## 53	Noah Vonleh	BOS	27	23	17	6	171.6	25	11	24	1	4
## 54	Payton Pritchard	BOS	25	48	32	16	642.8	270	101	245	56	154
## 55	Robert Williams III	BOS	25	35	24	11	823.5	279	127	170	0	1
## 56	Sam Hauser	BOS	25	80	55	25	1289.9	512	180	396	140	335
## 57	Bryce McGowens	CHA	20	46	16	30	787.0	246	80	202	26	80
## 58	Cody Martin	CHA	27	7	2	5	133.7	35	14	36	3	14
## 59	Dennis Smith Jr.	CHA	25	54	19	35	1389.8	474	186	452	24	111
## 60	Gordon Hayward	CHA	33	50	20	30	1576.9	733	276	581	52	160
## 61	JT Thor	CHA	20	69	22	47	968.8	262	95	238	39	123
## 62	James Bouknight	CHA	22	34	9	25	515.5	191	69	193	33	109
## 63	Kai Jones	CHA	22	46	13	33	549.6	157	67	120	4	19
## 64	Kelly Oubre Jr.	CHA	27	48	16	32	1547.5	972	353	819	108	339
## 65	Kobi Simmons	CHA	25	5	1	4	27.8	5	1	6	1	5
## 66	LaMelo Ball	CHA	21	36	13	23	1267.8	838	296	721	144	383
## 67	Mark Williams	CHA	21	43	18	25	828.0	387	160	251	0	0
## 68	Nick Richards	CHA	25	65	21	44	1217.7	532	197	313	1	1
## 69	P.J. Washington	CHA	24	73	24	49	2379.6	1144	434	978	149	428
## 70	Svi Mykhailiuk	CHA	26	32	16	16	467.9	222	77	173	42	99
## 71	Terry Rozier	CHA	29	63	19	44	2220.9	1329	493	1188	165	505
## 72	Theo Maledon	CHA	22	44	14	30	853.7	295	102	254	28	95
## 73	Xavier Sneed	CHA	25	4	0	4	48.2	17	5	10	3	6
## 74	Alex Caruso	CHI	29	67	33	34	1575.4	374	130	286	55	151
## 75	Andre Drummond	CHI	29	67	32	35	849.1	399	166	274	0	3
## 76	Ayo Dosunmu	CHI	23	80	40	40	2097.6	687	281	570	59	189
## 77	Carlik Jones	CHI	25	7	4	3	56.0	20	6	15	3	6
## 78	Coby White	CHI	23	74	37	37	1730.2	715	263	594	128	344
## 79	Dalen Terry	CHI	20	38	19	19	213.9	85	32	72	7	27
## 80	DeMar DeRozan	CHI	33	74	37	37	2681.6	1816	657	1303	46	142
## 81	Derrick Jones Jr.	CHI	26	64	29	35	893.4	319	115	230	27	80
## 82	Javonte Green	CHI	29	32	13	19	480.3	165	61	108	13	35
## 83	Malcolm Hill	CHI	27	5	4	1	9.2	5	2	4	1	3
## 84	Marko Simonovic	CHI	23	7	3	4	19.6	6	2	7	1	4
## 85	Nikola Vucevic	CHI	32	82	40	42	2746.4	1447	597	1148	121	347
## 86	Patrick Beverley	CHI	34	67	34	33	1816.5	415	144	360	80	239
## 87	Patrick Williams	CHI	21	82	40	42	2322.8	833	314	677	115	277
## 88	Terry Taylor	CHI	23	31	13	18	263.4	89	39	75	5	19
## 89	Tony Bradley	CHI	25	12	5	7	33.4	19	6	12	3	5
## 90	Zach LaVine	CHI	28	77	38	39	2767.9	1913	673	1388	204	544
## 91	Caris LeVert	CLE	28	74	45	29	2237.3	897	320	742	127	324
## 92	Cedi Osman	CLE	28	77	48	29	1548.3	669	239	530	116	312
## 93	Danny Green	CLE	36	11	6	5	138.7	61	22	49	16	37
## 94	Darius Garland	CLE	23	69	40	29	2447.2	1490	522	1129	169	412
## 95	Dean Wade	CLE	26	44	30	14	891.6	206	73	177	45	127
## 96	Donovan Mitchell	CLE	26	68	44	24	2432.4	1922	679	1402	245	635
## 97	Dylan Windler	CLE	26	3	3	0	10.4	5	2	3	1	2
## 98	Evan Mobley	CLE	22	79	48	31	2715.3	1277	525	947	22	102
## 99	Isaac Okoro	CLE	22	76	48	28	1652.6	490	175	354	62	171
## 100	Isaiah Mobley	CLE	23	12	8	4	84.2	31	12	28	3	8
## 101	Jarrett Allen	CLE	25	68	44	24	2220.1	969	403	626	1	10
## 102	Lamar Stevens	CLE	25	62	39	23	1120.5	328	129	288	30	95
## 103	Mamadi Diakite	CLE	26	22	15	7	175.9	57	24	50	7	21

## 104	Raul Neto	CLE	31	48	31	17	505.2	157	57	110	12	42
## 105	Ricky Rubio	CLE	32	33	23	10	566.0	171	61	178	21	82
## 106	Robin Lopez	CLE	35	37	25	12	298.5	112	48	75	2	4
## 107	Sam Merrill	CLE	27	5	4	1	58.5	25	9	22	5	18
## 108	A.J. Lawson	DAL	22	15	5	10	108.3	56	22	44	10	25
## 109	Chris Silva	DAL	26	1	1	0	3.0	2	1	1	0	0
## 110	Christian Wood	DAL	27	67	33	34	1738.4	1114	396	769	105	279
## 111	Davis Bertans	DAL	30	45	20	25	491.8	206	69	160	55	141
## 112	Dwight Powell	DAL	31	76	37	39	1457.9	506	197	269	0	5
## 113	Facundo Campazzo	DAL	32	8	2	6	52.2	10	3	13	3	11
## 114	Frank Ntilikina	DAL	24	47	20	27	607.6	135	48	132	17	67
## 115	JaVale McGee	DAL	35	42	20	22	354.5	186	80	125	2	5
## 116	Jaden Hardy	DAL	20	48	20	28	708.4	420	146	333	63	156
## 117	Josh Green	DAL	22	60	27	33	1539.2	546	205	382	68	169
## 118	Justin Holiday	DAL	34	46	18	28	706.1	205	77	204	46	143
## 119	Kemba Walker	DAL	33	9	5	4	143.9	72	24	57	7	28
## 120	Kyrie Irving	DAL	31	60	32	28	2240.6	1623	594	1203	188	496
## 121	Luka Doncic	DAL	24	66	33	33	2390.5	2138	719	1449	185	541
## 122	Markieff Morris	DAL	33	35	17	18	355.1	132	47	115	28	71
## 123	Maxi Kleber	DAL	31	37	18	19	929.8	220	77	169	39	112
## 124	McKinley Wright IV	DAL	24	27	14	13	335.0	114	46	98	9	28
## 125	Reggie Bullock	DAL	32	78	37	41	2364.5	561	192	470	151	397
## 126	Theo Pinson	DAL	27	40	19	21	323.0	95	31	87	22	62
## 127	Tim Hardaway Jr.	DAL	31	71	37	34	2152.2	1019	340	847	212	550
## 128	Tyler Dorsey	DAL	27	3	2	1	8.3	9	4	5	1	2
## 129	Aaron Gordon	DEN	27	68	45	23	2055.1	1109	429	761	60	173
## 130	Bruce Brown	DEN	26	80	53	27	2279.5	923	358	741	91	254
## 131	Christian Braun	DEN	22	76	49	27	1181.1	360	143	289	34	96
## 132	DeAndre Jordan	DEN	34	39	23	16	585.9	199	88	115	1	1
## 133	Ish Smith	DEN	34	43	25	18	397.9	108	52	131	2	12
## 134	Jack White	DEN	25	17	13	4	66.0	21	8	19	3	9
## 135	Jamal Murray	DEN	26	65	43	22	2133.4	1298	473	1041	172	432
## 136	Jeff Green	DEN	36	56	33	23	1091.1	437	160	328	30	104
## 137	Kentavious Caldwell-Pope	DEN	30	76	51	25	2381.2	822	292	632	135	319
## 138	Michael Porter Jr.	DEN	25	62	41	21	1797.9	1080	398	817	188	454
## 139	Nikola Jokic	DEN	28	69	48	21	2323.0	1690	646	1022	57	149
## 140	Peyton Watson	DEN	20	23	13	10	186.1	75	29	59	6	14
## 141	Reggie Jackson	DEN	33	68	36	32	1656.9	693	263	640	96	288
## 142	Thomas Bryant	DEN	25	59	33	26	1081.5	579	230	369	26	59
## 143	Vlatko Cancar	DEN	26	60	38	22	889.0	297	108	227	43	115
## 144	Zeke Nnaji	DEN	22	53	34	19	727.8	277	110	196	17	65
## 145	Alec Burks	DET	31	51	12	39	1122.4	652	200	459	99	239
## 146	Bojan Bogdanovic	DET	34	59	15	44	1892.9	1273	430	882	145	353
## 147	Braxton Key	DET	26	3	0	3	9.1	4	1	1	0	0
## 148	Buddy Boeheim	DET	23	10	2	8	90.1	16	5	27	4	25
## 149	Cade Cunningham	DET	21	12	3	9	400.2	239	93	224	17	61
## 150	Cory Joseph	DET	31	62	12	50	1227.4	427	150	351	70	180
## 151	Eugene Omoruyi	DET	26	40	10	30	645.3	278	101	228	25	89
## 152	Hamidou Diallo	DET	24	56	12	44	995.9	522	215	375	5	21
## 153	Isaiah Livers	DET	24	52	10	42	1198.7	346	120	288	74	203
## 154	Isaiah Stewart	DET	22	50	12	38	1414.1	567	195	441	67	205
## 155	Jaden Ivey	DET	21	74	16	58	2304.3	1204	409	983	120	350



## 156	Jalen Duren	DET	19	67	16	51	1670.1	612	258	398	0	2
## 157	James Wiseman	DET	22	45	11	34	867.2	450	189	339	4	20
## 158	Jared Rhoden	DET	23	14	2	12	197.9	45	17	44	5	20
## 159	Killian Hayes	DET	21	76	16	60	2153.6	786	307	815	80	286
## 160	Marvin Bagley III	DET	24	42	7	35	990.5	504	202	382	19	66
## 161	R.J. Hampton	DET	22	47	9	38	749.6	302	102	237	41	116
## 162	Rodney McGruder	DET	31	32	4	28	523.9	183	62	152	41	97
## 163	Stanley Umude	DET	24	1	0	1	2.1	2	0	1	0	1
## 164	Andre Iguodala	GSW	39	8	3	5	112.6	17	7	15	1	9
## 165	Andrew Wiggins	GSW	28	37	19	18	1190.3	633	250	529	89	225
## 166	Anthony Lamb	GSW	25	62	36	26	1195.0	415	148	314	73	199
## 167	Donte DiVincenzo	GSW	26	72	42	30	1894.4	678	235	540	150	378
## 168	Draymond Green	GSW	33	73	41	32	2297.6	617	250	474	40	131
## 169	Gary Payton II	GSW	30	22	13	9	367.6	101	41	69	13	26
## 170	JaMychal Green	GSW	33	57	30	27	796.7	366	136	252	42	111
## 171	Jonathan Kuminga	GSW	20	67	38	29	1394.4	666	261	497	54	146
## 172	Jordan Poole	GSW	24	82	44	38	2458.1	1675	550	1278	214	637
## 173	Kevon Looney	GSW	27	82	44	38	1957.6	578	242	384	0	1
## 174	Klay Thompson	GSW	33	69	38	31	2278.9	1509	546	1252	301	731
## 175	Lester Quinones	GSW	22	4	4	0	18.1	10	2	5	2	4
## 176	Moses Moody	GSW	21	63	37	26	817.1	302	108	227	49	135
## 177	Patrick Baldwin	GSW	20	31	15	16	225.8	122	43	109	32	84
## 178	Ryan Rollins	GSW	20	12	5	7	62.1	23	7	20	3	9
## 179	Stephen Curry	GSW	35	56	30	26	1941.2	1648	559	1133	273	639
## 180	Ty Jerome	GSW	25	45	22	23	815.6	309	118	242	35	90
## 181	Alperen Sengun	HOU	20	75	18	57	2170.7	1109	442	799	19	57
## 182	Boban Marjanovic	HOU	34	31	7	24	171.1	102	41	60	0	1
## 183	Daishen Nix	HOU	21	57	15	42	914.4	226	81	237	40	140
## 184	Darius Days	HOU	23	4	0	4	25.0	15	5	12	3	10
## 185	Frank Kaminsky	HOU	30	36	13	23	234.9	89	31	63	13	33
## 186	Jabari Smith Jr.	HOU	20	79	21	58	2450.5	1010	364	892	120	391
## 187	Jae'Sean Tate	HOU	27	31	7	24	677.5	283	110	229	13	46
## 188	Jalen Green	HOU	21	76	20	56	2602.2	1683	566	1359	187	554
## 189	Josh Christopher	HOU	21	64	16	48	786.2	372	153	329	21	89
## 190	Kenyon Martin Jr.	HOU	22	82	22	60	2292.2	1039	410	720	68	216
## 191	Kevin Porter Jr.	HOU	23	59	18	41	2023.9	1130	391	884	141	385
## 192	Tari Eason	HOU	22	82	22	60	1767.2	760	296	660	59	172
## 193	Trevor Hudgins	HOU	24	5	0	5	28.3	9	2	9	2	8
## 194	TyTy Washington Jr.	HOU	21	31	6	25	432.7	145	58	160	19	80
## 195	Usman Garuba	HOU	21	75	21	54	970.2	225	86	177	24	59
## 196	Aaron Nesmith	IND	23	73	30	43	1816.4	738	252	590	115	314
## 197	Andrew Nembhard	IND	23	75	32	43	2073.5	709	284	644	92	263
## 198	Bennedict Mathurin	IND	21	78	33	45	2222.4	1302	413	951	100	310
## 199	Buddy Hield	IND	30	80	35	45	2481.9	1344	475	1038	288	677
## 200	Chris Duarte	IND	26	46	19	27	897.2	362	123	333	55	174
## 201	Daniel Theis	IND	31	7	1	6	108.8	49	21	44	2	11
## 202	Gabe York	IND	29	3	1	2	55.8	24	8	21	6	18
## 203	George Hill	IND	37	46	27	19	833.3	232	78	166	34	95
## 204	Isaiah Jackson	IND	21	63	24	39	1042.3	455	179	318	2	14
## 205	Jalen Smith	IND	23	68	31	37	1278.8	642	242	508	54	191
## 206	James Johnson	IND	36	18	7	11	162.4	51	22	49	3	15
## 207	Jordan Nwora	IND	24	62	36	26	1188.1	542	194	445	86	211

## 208	Kendall Brown	IND	20	6	1	5	40.3	9	4	7	0	1
## 209	Myles Turner	IND	27	62	29	33	1825.2	1113	402	733	93	249
## 210	Oshae Brissett	IND	25	65	27	38	1083.2	398	123	319	48	155
## 211	T.J. McConnell	IND	31	75	31	44	1526.4	650	283	521	26	59
## 212	Trevelin Queen	IND	26	7	2	5	70.0	21	7	29	2	15
## 213	Tyrese Haliburton	IND	23	56	28	28	1882.9	1160	412	841	161	402
## 214	Amir Coffey	LAC	26	50	26	24	625.3	172	56	145	11	40
## 215	Bones Hyland	LAC	22	56	36	20	1085.5	659	228	571	117	315
## 216	Brandon Boston Jr.	LAC	21	22	9	13	248.3	143	51	122	12	29
## 217	Eric Gordon	LAC	34	69	25	44	1965.5	856	291	653	132	356
## 218	Ivica Zubac	LAC	26	76	43	33	2169.4	818	326	514	0	2
## 219	Jason Preston	LAC	23	14	4	10	123.8	41	18	41	5	18
## 220	John Wall	LAC	32	34	15	19	754.7	386	138	339	33	109
## 221	Kawhi Leonard	LAC	32	52	33	19	1747.5	1239	446	871	104	250
## 222	Marcus Morris Sr.	LAC	33	65	35	30	1825.1	728	274	643	112	307
## 223	Mason Plumlee	LAC	33	79	28	51	2052.9	857	329	484	0	0
## 224	Moussa Diabate	LAC	21	22	10	12	195.5	59	24	47	1	2
## 225	Nicolas Batum	LAC	34	78	44	34	1709.6	478	160	381	124	317
## 226	Norman Powell	LAC	30	60	31	29	1567.1	1019	340	710	114	287
## 227	Paul George	LAC	33	56	32	24	1938.9	1332	459	1004	158	426
## 228	Robert Covington	LAC	32	48	20	28	778.6	288	102	229	54	136
## 229	Russell Westbrook	LAC	34	73	36	37	2125.8	1159	432	991	89	286
## 230	Terance Mann	LAC	26	81	44	37	1872.2	713	272	524	77	198
## 231	Xavier Moon	LAC	28	4	2	2	19.6	7	3	9	1	3
## 232	Anthony Davis	LAL	30	56	31	25	1904.5	1451	542	962	19	74
## 233	Austin Reaves	LAL	25	64	35	29	1843.2	833	259	490	86	216
## 234	Cole Swider	LAL	24	7	2	5	41.1	9	3	9	3	8
## 235	D'Angelo Russell	LAL	27	71	39	32	2304.1	1263	445	948	194	490
## 236	Davon Reed	LAL	28	43	29	14	342.5	89	28	84	17	46
## 237	Dennis Schroder	LAL	29	66	37	29	1985.9	830	270	650	74	225
## 238	Jarred Vanderbilt	LAL	24	78	43	35	1879.7	619	247	451	29	90
## 239	LeBron James	LAL	38	55	30	25	1953.9	1590	609	1219	121	377
## 240	Lonnie Walker IV	LAL	24	56	27	29	1297.0	654	236	527	91	249
## 241	Malik Beasley	LAL	26	81	45	36	2093.1	1025	370	937	235	658
## 242	Max Christie	LAL	20	41	19	22	512.4	128	44	106	26	62
## 243	Mo Bamba	LAL	25	49	25	24	768.4	323	117	241	48	124
## 244	Rui Hachimura	LAL	25	63	38	25	1466.0	707	284	584	51	160
## 245	Scotty Pippen Jr.	LAL	22	6	1	5	31.5	14	4	12	1	3
## 246	Shaquille Harrison	LAL	29	5	1	4	119.9	44	15	36	3	10
## 247	Sterling Brown	LAL	28	4	2	2	24.4	0	0	4	0	2
## 248	Troy Brown Jr.	LAL	23	76	40	36	1859.8	541	200	465	107	281
## 249	Wenyen Gabriel	LAL	26	68	37	31	1023.8	372	155	260	10	36
## 250	Brandon Clarke	MEM	26	56	32	24	1090.1	559	229	349	1	6
## 251	David Roddy	MEM	22	70	44	26	1258.5	466	180	420	65	212
## 252	Desmond Bane	MEM	25	58	38	20	1841.5	1247	450	939	166	407
## 253	Dillon Brooks	MEM	27	73	46	27	2214.3	1047	392	991	143	439
## 254	Ja Morant	MEM	23	61	40	21	1948.3	1596	566	1214	92	300
## 255	Jacob Gilyard	MEM	24	1	0	1	40.8	3	1	3	1	3
## 256	Jake LaRavia	MEM	21	35	22	13	414.3	105	37	95	24	71
## 257	Jaren Jackson Jr.	MEM	23	63	41	22	1787.5	1173	416	822	100	282
## 258	John Konchar	MEM	27	72	45	27	1493.8	364	138	320	60	177
## 259	Kennedy Chandler	MEM	20	36	22	14	281.5	78	35	83	2	15

## 260	Kenneth Lofton Jr.	MEM	20	24	15	9	176.0	120	49	93	6	17
## 261	Luke Kennard	MEM	27	59	37	22	1315.1	546	188	382	133	269
## 262	Santi Aldama	MEM	22	77	47	30	1681.7	696	247	525	94	266
## 263	Steven Adams	MEM	29	42	28	14	1133.3	361	157	263	0	1
## 264	Tyus Jones	MEM	27	80	51	29	1939.4	822	311	710	121	326
## 265	Vince Williams Jr.	MEM	22	15	7	8	104.6	30	12	40	4	28
## 266	Xavier Tillman	MEM	24	61	40	21	1180.1	429	188	306	4	15
## 267	Ziaire Williams	MEM	21	37	21	16	560.8	210	84	196	25	97
## 268	Bam Adebayo	MIA	25	75	40	35	2598.0	1529	602	1114	1	12
## 269	Caleb Martin	MIA	27	71	38	33	2077.7	683	254	548	84	236
## 270	Cody Zeller	MIA	30	15	6	9	216.6	98	37	59	0	2
## 271	Duncan Robinson	MIA	29	42	19	23	690.5	268	88	237	63	192
## 272	Gabe Vincent	MIA	27	68	37	31	1758.7	641	228	567	117	350
## 273	Haywood Highsmith	MIA	26	54	28	26	969.4	236	93	216	37	109
## 274	Jamal Cain	MIA	24	18	10	8	240.0	98	37	66	7	20
## 275	Jimmy Butler	MIA	33	64	35	29	2138.0	1466	479	888	36	103
## 276	Kevin Love	MIA	34	62	35	27	1239.5	509	165	424	99	296
## 277	Kyle Lowry	MIA	37	55	30	25	1717.7	615	196	485	107	310
## 278	Max Strus	MIA	27	80	42	38	2272.0	923	324	790	197	563
## 279	Nikola Jovic	MIA	20	15	7	8	204.5	82	28	69	8	35
## 280	Omer Yurtseven	MIA	25	9	5	4	83.2	40	16	27	3	7
## 281	Orlando Robinson	MIA	22	31	18	13	425.1	116	47	89	0	6
## 282	Tyler Herro	MIA	23	67	37	30	2335.4	1347	487	1109	203	537
## 283	Udonis Haslem	MIA	43	7	4	3	72.1	27	10	29	3	9
## 284	Victor Oladipo	MIA	31	42	23	19	1105.6	449	160	403	70	212
## 285	AJ Green	MIL	23	35	27	8	344.9	154	53	125	44	105
## 286	Bobby Portis	MIL	28	70	47	23	1818.4	987	398	803	95	257
## 287	Brook Lopez	MIL	35	78	57	21	2372.5	1239	477	899	136	364
## 288	Giannis Antetokounmpo	MIL	28	63	47	16	2023.6	1959	707	1278	47	171
## 289	Goran Dragic	MIL	37	58	27	31	870.0	365	141	335	52	145
## 290	Grayson Allen	MIL	27	72	53	19	1972.1	750	245	557	146	366
## 291	Jae Crowder	MIL	32	18	13	5	339.7	124	45	94	24	55
## 292	Jevon Carter	MIL	27	81	57	24	1811.8	651	239	565	142	337
## 293	Joe Ingles	MIL	35	46	32	14	1043.5	317	108	248	83	203
## 294	Jrue Holiday	MIL	33	67	50	17	2182.5	1290	490	1023	158	411
## 295	Khrist Middleton	MIL	31	33	25	8	800.8	497	177	406	51	162
## 296	Lindell Wigginton	MIL	25	7	4	3	86.7	50	18	37	6	18
## 297	MarJon Beauchamp	MIL	22	52	34	18	701.4	266	96	243	47	142
## 298	Meyers Leonard	MIL	31	9	6	3	113.7	43	14	29	7	18
## 299	Pat Connaughton	MIL	30	61	43	18	1442.7	466	165	421	109	322
## 300	Serge Ibaka	MIL	33	16	11	5	185.4	66	26	54	6	18
## 301	Thanasis Antetokounmpo	MIL	30	37	25	12	206.2	51	20	46	0	8
## 302	Wesley Matthews	MIL	36	52	37	15	820.4	179	58	160	39	124
## 303	Anthony Edwards	MIN	21	79	40	39	2841.5	1946	707	1541	213	578
## 304	Austin Rivers	MIN	30	52	25	27	1016.3	255	91	209	43	123
## 305	Bryn Forbes	MIN	29	25	9	16	267.7	89	30	83	14	46
## 306	Jaden McDaniels	MIN	22	79	41	38	2416.5	953	370	716	107	269
## 307	Jaylen Nowell	MIN	23	65	34	31	1251.7	704	280	625	67	232
## 308	Jordan McLaughlin	MIN	27	43	22	21	678.5	161	61	145	24	78
## 309	Josh Minott	MIN	20	15	7	8	96.2	46	18	36	2	6
## 310	Karl-Anthony Towns	MIN	27	29	15	14	957.0	602	212	428	60	164
## 311	Kyle Anderson	MIN	29	69	36	33	1956.6	647	252	495	43	105

## 312	Luka Garza	MIN	24	28	15	13	243.4	181	63	116	14	39
## 313	Matt Ryan	MIN	26	34	15	19	310.2	122	40	108	32	84
## 314	Mike Conley	MIN	35	67	34	33	2028.1	798	261	610	135	351
## 315	Nathan Knight	MIN	25	38	19	19	290.7	139	46	81	8	22
## 316	Naz Reid	MIN	23	68	32	36	1250.9	781	310	577	75	217
## 317	Nickeil Alexander-Walker	MIN	24	59	29	30	883.9	363	131	295	61	159
## 318	Rudy Gobert	MIN	31	70	34	36	2148.5	939	360	546	0	3
## 319	Taurean Prince	MIN	29	54	31	23	1192.5	493	177	379	74	194
## 320	Wendell Moore Jr.	MIN	21	29	16	13	152.7	42	18	43	2	17
## 321	Brandon Ingram	NOP	25	45	23	22	1538.1	1112	404	835	64	164
## 322	CJ McCollum	NOP	31	75	38	37	2649.2	1568	587	1344	211	543
## 323	Dereon Seabron	NOP	23	5	2	3	11.6	4	2	5	0	0
## 324	Dyson Daniels	NOP	20	59	33	26	1042.1	227	87	208	27	86
## 325	Garrett Temple	NOP	37	25	16	9	161.8	50	18	45	11	26
## 326	Herbert Jones	NOP	24	66	31	35	1950.5	649	235	501	56	167
## 327	Jaxson Hayes	NOP	23	47	22	25	610.1	233	86	156	3	29
## 328	Jonas Valanciunas	NOP	31	79	40	39	1968.2	1115	446	816	38	109
## 329	Jose Alvarado	NOP	25	61	30	31	1310.0	550	201	489	83	247
## 330	Josh Richardson	NOP	29	65	24	41	1529.6	654	239	554	107	293
## 331	Kira Lewis Jr.	NOP	22	25	11	14	234.8	114	40	88	15	34
## 332	Larry Nance Jr.	NOP	30	65	34	31	1380.8	441	186	305	14	42
## 333	Naji Marshall	NOP	25	77	40	37	1792.0	698	247	571	66	218
## 334	Trey Murphy III	NOP	23	79	39	40	2448.0	1148	387	800	202	497
## 335	Willy Hernangomez	NOP	29	38	23	15	457.7	262	89	169	3	11
## 336	Zion Williamson	NOP	22	29	17	12	956.1	754	285	469	7	19
## 337	Derrick Rose	NYK	34	27	12	15	337.9	152	61	159	19	63
## 338	Duane Washington Jr.	NYK	23	31	17	14	393.8	244	94	256	40	111
## 339	Evan Fournier	NYK	30	27	15	12	458.7	165	56	166	35	114
## 340	Immanuel Quickley	NYK	24	81	47	34	2344.1	1209	419	936	168	454
## 341	Isaiah Hartenstein	NYK	25	82	47	35	1628.2	406	175	327	8	37
## 342	Isaiah Roby	NYK	25	42	9	33	473.6	172	67	155	18	60
## 343	Jalen Brunson	NYK	26	68	40	28	2378.7	1633	587	1195	134	322
## 344	Jericho Sims	NYK	24	52	31	21	812.4	178	83	107	0	1
## 345	Josh Hart	NYK	28	76	42	34	2454.0	743	275	520	61	164
## 346	Julius Randle	NYK	28	77	44	33	2737.3	1936	658	1432	218	636
## 347	Miles McBride	NYK	22	64	36	28	760.2	222	77	215	40	134
## 348	Mitchell Robinson	NYK	25	59	35	24	1588.8	435	188	280	0	0
## 349	Obi Toppin	NYK	25	67	37	30	1050.5	497	187	419	85	247
## 350	Quentin Grimes	NYK	23	71	41	30	2120.9	799	282	602	157	407
## 351	RJ Barrett	NYK	23	73	40	33	2475.5	1431	510	1176	121	390
## 352	Trevor Keels	NYK	19	3	3	0	8.0	3	1	4	1	4
## 353	Aaron Wiggins	OKC	24	70	37	33	1297.4	479	186	363	48	122
## 354	Aleksej Pokusevski	OKC	21	34	16	18	701.3	276	108	249	38	104
## 355	Dario Saric	OKC	29	57	26	31	806.0	362	127	277	45	115
## 356	Isaiah Joe	OKC	23	73	36	37	1395.3	691	224	508	161	394
## 357	Jalen Williams	OKC	22	75	36	39	2275.6	1056	414	794	73	205
## 358	Jared Butler	OKC	22	6	3	3	76.5	37	15	32	7	14
## 359	Jaylin Williams	OKC	21	49	23	26	914.2	288	102	234	46	113
## 360	Jeremiah Robinson-Earl	OKC	22	43	16	27	813.7	292	110	248	37	111
## 361	Josh Giddey	OKC	20	76	34	42	2367.3	1260	539	1118	76	234
## 362	Kenrich Williams	OKC	28	53	26	27	1206.0	425	179	346	50	134
## 363	Lindy Waters III	OKC	25	41	20	21	530.8	214	70	178	58	162

## 364	Luguentz Dort	OKC	24	74	36	38	2272.4	1013	339	873	135	409
## 365	Olivier Sarr	OKC	24	9	5	4	113.6	36	15	30	1	8
## 366	Ousmane Dieng	OKC	20	39	20	19	568.7	193	76	181	26	98
## 367	Shai Gilgeous-Alexander	OKC	24	68	33	35	2416.0	2135	704	1381	58	168
## 368	Tre Mann	OKC	22	67	31	36	1183.4	517	197	501	81	257
## 369	Admiral Schofield	ORL	26	37	14	23	451.3	155	55	122	24	74
## 370	Bol Bol	ORL	23	70	26	44	1505.4	634	261	478	30	113
## 371	Caleb Houston	ORL	20	51	20	31	812.2	193	66	182	46	136
## 372	Chuma Okeke	ORL	24	27	8	19	518.0	128	43	122	26	86
## 373	Cole Anthony	ORL	23	60	28	32	1551.8	781	277	610	75	206
## 374	Franz Wagner	ORL	21	80	33	47	2608.7	1485	542	1118	130	360
## 375	Gary Harris	ORL	28	48	22	26	1184.4	397	138	307	94	218
## 376	Goga Bitadze	ORL	23	38	13	25	456.8	167	69	125	6	26
## 377	Jalen Suggs	ORL	22	53	20	33	1245.9	524	186	444	66	202
## 378	Jay Scrubb	ORL	22	2	1	1	30.1	13	5	7	2	2
## 379	Jonathan Isaac	ORL	25	11	8	3	124.0	55	22	53	6	15
## 380	Kevon Harris	ORL	26	34	12	22	457.0	141	47	107	16	43
## 381	Markelle Fultz	ORL	25	60	29	31	1777.9	837	349	679	27	87
## 382	Michael Carter-Williams	ORL	31	4	1	3	44.5	17	6	14	1	3
## 383	Moritz Wagner	ORL	26	57	27	30	1109.5	600	198	396	51	163
## 384	Paolo Banchero	ORL	20	72	31	41	2429.7	1437	479	1122	85	285
## 385	Wendell Carter Jr.	ORL	24	57	26	31	1689.5	868	322	613	80	225
## 386	Danuel House Jr.	PHI	30	56	38	18	807.0	268	93	197	37	110
## 387	De'Anthony Melton	PHI	25	77	50	27	2149.8	780	277	651	157	403
## 388	Dewayne Dedmon	PHI	33	38	23	15	426.2	199	77	151	12	39
## 389	Furkan Korkmaz	PHI	25	37	24	13	353.5	140	48	111	18	46
## 390	Georges Niang	PHI	30	78	51	27	1511.8	637	222	502	154	384
## 391	Jaden Springer	PHI	20	16	13	3	89.3	42	17	35	2	5
## 392	Jalen McDaniels	PHI	25	80	31	49	1912.9	755	281	617	77	232
## 393	James Harden	PHI	33	58	39	19	2135.0	1216	371	842	161	418
## 394	Joel Embiid	PHI	29	66	43	23	2284.1	2183	728	1328	66	200
## 395	Louis King	PHI	24	1	1	0	28.8	20	8	13	4	8
## 396	Mac McClung	PHI	24	2	2	0	41.1	25	9	20	4	11
## 397	Michael Foster Jr.	PHI	20	1	1	0	1.0	0	0	0	0	0
## 398	Montrezl Harrell	PHI	29	57	35	22	681.1	320	125	209	0	6
## 399	P.J. Tucker	PHI	38	75	48	27	1920.1	266	96	225	55	140
## 400	Paul Reed	PHI	24	69	44	25	755.2	287	124	209	1	6
## 401	Shake Milton	PHI	26	76	52	24	1567.4	637	241	503	56	148
## 402	Tobias Harris	PHI	30	74	47	27	2435.9	1085	423	845	126	324
## 403	Tyrese Maxey	PHI	22	60	39	21	2015.8	1218	439	913	160	369
## 404	Bismack Biyombo	PHX	30	61	33	28	874.1	263	119	206	0	0
## 405	Cameron Payne	PHX	28	48	27	21	968.3	493	188	453	68	185
## 406	Chris Paul	PHX	38	59	33	26	1888.6	819	294	668	98	261
## 407	Damion Lee	PHX	30	74	40	34	1506.3	604	200	452	110	247
## 408	Darius Bazley	PHX	23	43	19	24	616.2	224	83	183	20	53
## 409	Deandre Ayton	PHX	24	67	36	31	2035.3	1203	522	887	7	24
## 410	Devin Booker	PHX	26	53	34	19	1835.4	1471	527	1067	111	316
## 411	Ish Wainright	PHX	28	60	33	27	915.1	251	84	227	57	173
## 412	Jock Landale	PHX	27	69	35	34	978.5	456	178	337	21	84
## 413	Josh Okogie	PHX	24	72	38	34	1350.6	529	162	414	66	197
## 414	Kevin Durant	PHX	34	47	34	13	1671.8	1366	483	862	93	230
## 415	Landry Shamet	PHX	26	40	19	21	806.9	346	113	300	75	199

## 416	Saben Lee	PHX	24	25	15	10	373.5	151	49	121	11	30
## 417	T.J. Warren	PHX	29	42	26	16	686.7	314	132	270	22	67
## 418	Terrence Ross	PHX	32	63	27	36	1330.5	522	200	465	95	258
## 419	Torrey Craig	PHX	32	79	44	35	1947.8	588	228	500	100	253
## 420	Anfernee Simons	POR	24	62	27	35	2170.7	1306	467	1045	212	562
## 421	Cam Reddish	POR	23	40	14	26	989.6	387	139	312	45	144
## 422	Chance Comanche	POR	27	1	0	1	20.8	7	3	5	0	0
## 423	Damian Lillard	POR	32	58	27	31	2106.6	1866	556	1202	244	658
## 424	Drew Eubanks	POR	26	78	31	47	1583.7	518	214	334	7	18
## 425	Greg Brown III	POR	21	16	10	6	93.1	28	11	28	1	7
## 426	Jabari Walker	POR	20	56	21	35	619.2	216	83	198	16	56
## 427	Jeenathan Williams	POR	24	5	1	4	126.6	53	24	39	3	8
## 428	Jerami Grant	POR	29	63	28	35	2245.5	1290	434	913	144	359
## 429	John Butler Jr.	POR	20	19	4	15	221.1	45	17	53	8	35
## 430	Justin Minaya	POR	24	4	0	4	88.8	17	7	23	3	12
## 431	Justise Winslow	POR	27	29	15	14	775.8	196	81	198	14	45
## 432	Jusuf Nurkic	POR	28	52	24	28	1391.4	694	262	505	43	119
## 433	Keon Johnson	POR	21	40	13	27	416.4	189	67	178	28	81
## 434	Kevin Knox II	POR	23	63	12	51	951.7	415	152	332	65	186
## 435	Matisse Thybulle	POR	26	71	38	33	1200.4	293	110	253	54	148
## 436	Nassir Little	POR	23	54	22	32	976.1	359	134	303	58	158
## 437	Ryan Arcidiacono	POR	29	20	9	11	172.4	26	9	37	8	23
## 438	Shaedon Sharpe	POR	20	80	32	48	1778.6	789	306	648	102	283
## 439	Skylar Mays	POR	25	6	1	5	188.8	92	34	68	12	26
## 440	Trendon Watford	POR	22	62	26	36	1181.6	459	181	323	25	64
## 441	Alex Len	SAC	30	26	15	11	161.2	43	16	30	0	2
## 442	Chima Moneke	SAC	27	2	1	1	7.9	2	1	2	0	0
## 443	Chimezie Metu	SAC	26	66	41	25	689.0	321	129	219	9	38
## 444	Davion Mitchell	SAC	24	80	47	33	1447.0	450	181	399	63	197
## 445	De'Aaron Fox	SAC	25	73	44	29	2435.2	1826	682	1331	119	367
## 446	Deonte Burton	SAC	29	2	1	1	6.5	0	0	2	0	1
## 447	Domantas Sabonis	SAC	27	79	47	32	2735.6	1510	577	938	31	83
## 448	Harrison Barnes	SAC	31	82	48	34	2662.0	1230	374	791	132	353
## 449	KZ Okpala	SAC	24	35	19	16	248.0	46	16	38	7	21
## 450	Keegan Murray	SAC	22	80	47	33	2381.7	976	354	782	206	501
## 451	Keon Ellis	SAC	23	16	7	9	70.9	24	7	16	6	12
## 452	Kessler Edwards	SAC	22	36	17	19	385.8	100	36	93	17	55
## 453	Kevin Huerter	SAC	24	75	44	31	2202.8	1140	420	866	205	510
## 454	Malik Monk	SAC	25	77	47	30	1719.2	1041	357	796	143	398
## 455	Matthew Dellavedova	SAC	32	32	19	13	212.8	47	17	50	9	27
## 456	Neemias Queta	SAC	23	5	1	4	28.7	12	6	9	0	0
## 457	PJ Dozier	SAC	26	16	11	5	79.3	22	10	33	2	16
## 458	Richaun Holmes	SAC	29	42	22	20	347.6	130	55	89	5	8
## 459	Terence Davis	SAC	26	64	38	26	841.0	431	154	364	89	243
## 460	Trey Lyles	SAC	27	74	43	31	1247.2	562	187	408	87	240
## 461	Alize Johnson	SAS	27	4	1	3	29.5	7	3	6	0	2
## 462	Blake Wesley	SAS	20	37	9	28	669.1	184	69	215	20	52
## 463	Charles Bassey	SAS	22	35	9	26	507.9	199	87	135	3	8
## 464	Devin Vassell	SAS	22	38	12	26	1178.1	703	261	595	103	266
## 465	Devonte' Graham	SAS	28	73	31	42	1338.4	539	161	431	119	338
## 466	Dominick Barlow	SAS	20	28	5	23	407.6	110	46	86	0	4
## 467	Doug McDermott	SAS	31	64	19	45	1314.2	654	239	523	123	298

## 468	Gorgui Dieng	SAS	33	31	3	28	358.1	121	45	117	21	75
## 469	Jeremy Sochan	SAS	20	56	15	41	1457.7	614	250	552	33	134
## 470	Jordan Hall	SAS	21	9	1	8	82.7	28	9	28	3	15
## 471	Joshua Primo	SAS	20	4	3	1	93.4	28	9	26	3	12
## 472	Julian Champagne	SAS	22	17	7	10	320.1	165	59	130	33	82
## 473	Keita Bates-Diop	SAS	27	67	18	49	1452.6	647	236	465	56	142
## 474	Keldon Johnson	SAS	23	63	17	46	2063.3	1385	503	1113	134	407
## 475	Khem Birch	SAS	30	20	9	11	161.8	43	19	32	1	2
## 476	Malaki Branham	SAS	20	66	15	51	1549.6	673	269	611	77	255
## 477	Romeo Langford	SAS	23	43	14	29	844.3	297	121	259	16	61
## 478	Sandro Mamukelashvili	SAS	24	43	23	20	659.7	263	97	230	30	99
## 479	Stanley Johnson	SAS	27	30	5	25	469.5	174	65	122	18	40
## 480	Tre Jones	SAS	23	68	20	48	1983.7	875	341	743	45	158
## 481	Zach Collins	SAS	25	63	20	43	1440.6	731	284	548	55	147
## 482	Chris Boucher	TOR	30	76	39	37	1523.5	712	261	529	62	189
## 483	Christian Koloko	TOR	23	58	29	29	801.8	182	72	150	1	12
## 484	Dalano Banton	TOR	23	31	17	14	278.5	142	55	130	15	51
## 485	Fred VanVleet	TOR	29	69	34	35	2535.0	1335	437	1112	207	606
## 486	Gary Trent Jr.	TOR	24	66	31	35	2118.0	1148	405	935	166	450
## 487	Jakob Poeltl	TOR	27	72	26	46	1906.1	897	389	618	0	1
## 488	Jeff Dowtin Jr.	TOR	26	25	17	8	258.7	61	25	57	5	16
## 489	Joe Wieskamp	TOR	23	9	6	3	49.7	9	3	14	3	12
## 490	Juancho Hernangomez	TOR	27	42	20	22	613.5	122	48	114	17	67
## 491	Malachi Flynn	TOR	25	53	29	24	690.8	246	87	242	47	133
## 492	O.G. Anunoby	TOR	25	67	33	34	2385.7	1124	421	885	142	367
## 493	Otto Porter Jr.	TOR	30	8	4	4	146.3	44	15	30	6	17
## 494	Pascal Siakam	TOR	29	71	35	36	2652.0	1720	630	1313	93	287
## 495	Precious Achiuwa	TOR	23	55	30	25	1140.5	508	196	404	29	108
## 496	Ron Harper Jr.	TOR	23	9	6	3	47.5	20	8	16	3	9
## 497	Scottie Barnes	TOR	21	77	38	39	2677.6	1179	463	1016	63	224
## 498	Thaddeus Young	TOR	35	54	23	31	795.5	240	108	198	6	34
## 499	Will Barton	TOR	32	56	27	29	993.0	379	138	364	66	180
## 500	Collin Sexton	UTA	24	48	24	24	1145.2	685	237	468	48	122
## 501	Damian Jones	UTA	28	41	12	29	477.4	142	55	86	10	17
## 502	Frank Jackson	UTA	25	1	0	1	5.0	0	0	3	0	1
## 503	Jarrell Brantley	UTA	27	4	0	4	39.0	22	8	14	4	9
## 504	Johnny Juzang	UTA	22	18	6	12	232.3	87	35	104	15	63
## 505	Jordan Clarkson	UTA	31	61	30	31	1988.3	1271	458	1031	155	459
## 506	Juan Toscano-Anderson	UTA	30	52	19	33	700.1	155	64	143	8	43
## 507	Kelly Olynyk	UTA	32	68	28	40	1941.6	847	278	557	93	236
## 508	Kris Dunn	UTA	29	22	8	14	567.5	290	116	216	17	36
## 509	Lauri Markkanen	UTA	26	66	32	34	2272.5	1691	571	1144	200	510
## 510	Leandro Bolmaro	UTA	22	14	8	6	68.5	6	3	20	0	4
## 511	Luka Samanic	UTA	23	7	2	5	160.8	69	26	57	8	31
## 512	Micah Potter	UTA	25	7	4	3	52.4	24	10	15	4	7
## 513	Ochai Agbaji	UTA	23	59	29	30	1209.2	467	165	386	81	228
## 514	Rudy Gay	UTA	36	56	29	27	815.6	293	109	288	33	131
## 515	Simone Fontecchio	UTA	27	52	25	27	765.8	328	115	312	63	191
## 516	Talen Horton-Tucker	UTA	22	65	30	35	1313.2	698	257	613	58	203
## 517	Udoka Azubuike	UTA	23	36	17	19	358.5	125	59	72	0	0
## 518	Vernon Carey Jr.	UTA	22	11	8	3	28.5	6	2	8	0	0
## 519	Walker Kessler	UTA	21	74	34	40	1703.2	679	298	414	1	3

## 520	Anthony Gill	WAS	30	59	21	38	624.6	195	71	132	4	29
## 521	Bradley Beal	WAS	30	50	24	26	1672.9	1160	444	878	80	219
## 522	Corey Kispert	WAS	24	74	31	43	2093.3	820	291	585	163	384
## 523	Daniel Gafford	WAS	24	78	32	46	1604.2	705	289	395	0	0
## 524	Delon Wright	WAS	31	50	26	24	1221.2	369	138	291	41	119
## 525	Deni Avdija	WAS	22	76	33	43	2020.4	697	253	579	69	232
## 526	Devon Dotson	WAS	23	6	1	5	53.1	3	1	10	1	4
## 527	Isaiah Todd	WAS	21	6	2	4	61.4	9	3	19	1	10
## 528	Jamaree Bouyea	WAS	24	5	2	3	70.5	15	6	14	2	6
## 529	Jay Huff	WAS	25	7	2	5	94.9	51	15	25	6	12
## 530	Johnny Davis	WAS	21	28	10	18	422.6	163	66	171	17	70
## 531	Jordan Goodwin	WAS	24	62	22	40	1105.4	407	158	353	38	118
## 532	Jordan Schakel	WAS	25	2	0	2	6.2	3	1	2	1	1
## 533	Kendrick Nunn	WAS	27	70	30	40	963.4	496	191	450	79	223
## 534	Kristaps Porzingis	WAS	27	65	27	38	2119.5	1505	507	1018	137	356
## 535	Kyle Kuzma	WAS	27	64	29	35	2238.9	1357	512	1142	160	481
## 536	Monte Morris	WAS	28	62	28	34	1696.1	636	247	515	78	204
## 537	Quenton Jackson	WAS	24	9	3	6	134.6	56	19	42	1	12
## 538	Taj Gibson	WAS	38	49	21	28	480.4	168	65	125	8	24
## 539	Xavier Cooks	WAS	27	10	2	8	125.8	38	17	28	0	1

##	FTM	FTA	OREB	DREB	REB	AST	TOV	STL	BLK	PF	FP	DD2	TD3	FGP	FTP
## 1	42	47	37	116	153	73	42	42	12	87	1052	0	0	46.53	89.36
## 2	27	32	25	49	74	89	36	37	12	79	580	0	0	41.82	84.38
## 3	64	77	23	142	165	150	65	43	18	86	1297	0	0	44.68	83.12
## 4	35	50	54	83	137	31	25	6	34	74	459	1	0	52.68	70.00
## 5	79	131	258	459	717	58	54	45	79	139	2044	35	0	65.30	60.31
## 6	171	207	46	238	284	94	82	35	17	199	1585	1	0	46.11	82.61
## 7	158	190	53	336	389	448	160	112	19	106	2887	8	1	46.40	83.16
## 8	0	0	0	2	2	0	0	0	0	0	6	0	0	40.00	NaN
## 9	48	53	11	62	73	26	19	24	5	62	452	0	0	36.32	90.57
## 10	49	78	51	231	282	83	41	38	34	113	1033	1	0	49.07	62.82
## 11	9	13	10	28	38	6	7	6	2	14	116	0	0	39.53	69.23
## 12	143	178	77	385	462	85	79	42	73	220	1879	11	0	50.78	80.34
## 13	153	196	217	359	576	81	81	56	107	251	2012	12	0	63.78	78.06
## 14	205	238	98	264	362	118	71	70	13	123	1851	4	0	42.22	86.13
## 15	566	639	56	161	217	741	300	80	9	104	3253	40	0	42.95	88.58
## 16	2	3	5	32	37	38	15	7	2	17	165	0	0	41.67	66.67
## 17	2	2	5	7	12	2	2	1	0	2	39	0	0	39.13	100.00
## 18	1	2	6	20	26	17	5	5	1	17	106	0	0	40.54	50.00
## 19	0	0	0	1	1	0	2	0	0	1	-1	0	0	NaN	NaN
## 20	25	57	40	223	263	256	97	54	24	139	1128	4	1	56.60	43.86
## 21	151	174	8	87	95	78	63	20	7	55	853	0	0	44.08	86.78
## 22	101	120	34	151	185	78	37	50	14	83	1144	1	0	47.05	84.17
## 23	12	17	11	18	29	21	18	10	1	31	166	0	0	46.15	70.59
## 24	35	55	99	101	200	37	42	15	32	89	622	2	0	54.39	63.64
## 25	45	59	114	202	316	100	62	55	36	144	1291	2	0	39.12	76.27
## 26	3	3	2	22	24	22	3	10	4	23	145	0	0	40.00	100.00
## 27	99	108	13	66	79	68	50	31	10	83	648	0	0	46.10	91.67
## 28	18	28	23	141	164	101	41	34	13	140	1010	0	0	45.68	64.29
## 29	316	353	79	285	364	273	127	91	61	159	2846	2	0	46.80	89.52
## 30	33	72	57	82	139	4	15	4	14	39	367	3	0	63.54	45.83
## 31	8	12	10	36	46	10	13	16	10	32	170	0	0	36.11	66.67



##	32	133	246	184	518	702	144	96	65	189	212	2685	28	0	70.53	54.07
##	33	25	30	8	36	44	56	30	15	3	32	407	0	0	41.15	83.33
##	34	2	2	3	6	9	7	4	0	1	5	36	0	0	50.00	100.00
##	35	50	69	55	329	384	283	114	65	49	239	1784	4	1	38.62	72.46
##	36	51	55	13	87	100	99	51	36	7	96	908	0	0	46.33	92.73
##	37	268	330	28	242	270	515	145	67	24	187	2594	9	0	43.81	81.21
##	38	34	47	30	111	141	48	22	25	17	80	667	0	0	49.14	72.34
##	39	15	21	73	317	390	189	37	30	61	121	1604	7	0	47.60	71.43
##	40	21	32	47	108	155	61	22	14	9	75	495	0	0	48.46	65.62
##	41	168	192	52	241	293	321	95	54	76	177	2145	7	0	46.17	87.50
##	42	94	122	87	276	363	131	82	41	31	192	1407	3	0	45.38	77.05
##	43	1	2	2	7	9	11	4	2	2	5	54	0	0	42.11	50.00
##	44	263	344	78	381	459	232	197	75	26	172	2789	13	0	49.10	76.45
##	45	531	622	78	571	649	342	213	78	51	160	3691	31	1	46.63	85.37
##	46	0	0	3	5	8	4	0	1	0	2	30	0	0	33.33	NaN
##	47	1	2	2	15	17	9	2	4	4	7	76	0	0	25.93	50.00
##	48	32	39	86	111	197	53	25	11	46	81	723	0	0	66.47	82.05
##	49	160	184	42	238	280	248	98	45	18	109	1799	0	0	48.36	86.96
##	50	88	118	46	145	191	382	143	93	23	172	1710	6	0	41.53	74.58
##	51	2	2	5	5	10	0	1	2	0	3	23	0	0	28.57	100.00
##	52	40	52	37	166	203	50	23	15	24	98	796	0	0	44.86	76.92
##	53	2	2	18	30	48	7	11	2	8	35	112	0	0	45.83	100.00
##	54	12	16	25	63	88	64	40	14	1	37	477	1	1	41.22	75.00
##	55	25	41	104	188	292	50	34	22	48	68	880	6	0	74.71	60.98
##	56	12	17	35	169	204	71	30	29	21	99	983	0	0	45.45	70.59
##	57	60	80	20	73	93	54	43	15	6	48	459	0	0	39.60	75.00
##	58	4	7	8	16	24	11	2	4	1	13	93	0	0	38.89	57.14
##	59	78	106	27	140	167	261	82	75	25	122	1284	1	0	41.15	73.58
##	60	129	159	33	182	215	206	99	42	12	70	1363	2	0	47.50	81.13
##	61	33	47	36	116	152	36	44	22	23	66	589	0	0	39.92	70.21
##	62	20	30	8	64	72	41	32	14	5	49	364	0	0	35.75	66.67
##	63	19	26	37	86	123	15	31	17	30	65	437	1	0	55.83	73.08
##	64	158	208	65	184	249	54	64	68	18	141	1546	3	0	43.10	75.96
##	65	2	2	1	3	4	5	1	0	2	0	22	0	0	16.67	100.00
##	66	102	121	42	189	231	304	129	46	11	118	1613	17	3	41.05	84.30
##	67	67	97	93	211	304	18	40	28	45	94	958	11	0	63.75	69.07
##	68	137	183	147	269	416	38	59	11	71	154	1275	14	0	62.94	74.86
##	69	127	174	73	285	358	175	110	66	79	193	2161	3	0	44.38	72.99
##	70	26	39	15	38	53	53	24	15	4	23	398	0	0	44.51	66.67
##	71	178	220	51	208	259	319	134	74	16	119	2254	1	0	41.50	80.91
##	72	63	74	14	109	123	152	59	37	12	61	759	1	0	40.16	85.14
##	73	4	4	0	5	5	5	3	0	1	7	31	0	0	50.00	100.00
##	74	59	73	42	154	196	193	77	98	46	159	1254	1	0	45.45	80.82
##	75	67	125	138	306	444	33	75	45	27	117	1122	8	0	60.58	53.60
##	76	66	82	45	175	220	206	99	62	26	182	1425	0	0	49.30	80.49
##	77	5	8	1	4	5	6	2	2	0	2	39	0	0	40.00	62.50
##	78	61	70	16	196	212	204	74	54	6	122	1381	1	0	44.28	87.14
##	79	14	21	12	25	37	22	8	11	5	24	202	0	0	44.44	66.67
##	80	456	523	34	309	343	377	153	83	36	186	2997	6	0	50.42	87.19
##	81	62	84	60	93	153	34	25	29	37	86	727	0	0	50.00	73.81
##	82	30	45	27	61	88	23	20	24	21	52	420	0	0	56.48	66.67
##	83	0	0	0	3	3	0	0	0	0	1	9	0	0	50.00	NaN

## 84	1	2	1	1	2	0	0	0	0	5	8	0	0	28.57	50.00
## 85	132	158	159	744	903	265	139	60	57	179	3140	51	1	52.00	83.54
## 86	47	65	44	203	247	194	60	63	41	187	1254	2	0	40.00	72.31
## 87	90	105	78	249	327	100	101	72	70	147	1700	1	0	46.38	85.71
## 88	6	11	27	20	47	10	9	3	6	26	178	0	0	52.00	54.55
## 89	4	4	1	10	11	1	1	1	1	2	39	0	0	50.00	100.00
## 90	363	428	42	303	345	327	194	69	18	159	2885	2	0	48.49	84.81
## 91	130	180	53	229	282	287	116	72	24	170	1838	1	0	43.13	72.22
## 92	75	108	25	151	176	115	52	35	11	122	1139	1	0	45.09	69.44
## 93	1	1	3	11	14	6	10	6	3	16	104	0	0	44.90	100.00
## 94	277	321	28	157	185	538	199	85	9	148	2602	18	0	46.24	86.29
## 95	15	23	20	130	150	37	17	28	21	89	572	0	0	41.24	65.22
## 96	319	368	63	226	289	301	180	99	27	168	2918	5	0	48.43	86.68
## 97	0	0	0	0	0	1	1	1	0	0	9	0	0	66.67	NaN
## 98	205	304	187	524	711	224	146	60	119	218	2857	24	0	55.44	67.43
## 99	78	103	52	135	187	87	42	56	30	158	1061	0	0	49.44	75.73
## 100	4	4	4	16	20	3	1	4	3	8	80	0	0	42.86	100.00
## 101	162	221	221	445	666	113	93	54	84	153	2259	32	0	64.38	73.30
## 102	40	57	48	159	207	33	27	27	19	79	737	1	0	44.79	70.18
## 103	2	2	8	22	30	8	12	4	9	26	132	0	0	48.00	100.00
## 104	31	34	10	36	46	79	24	17	4	49	370	0	0	51.82	91.18
## 105	28	35	9	61	70	115	31	26	6	51	493	0	0	34.27	80.00
## 106	14	18	23	28	51	19	25	2	8	43	207	0	0	64.00	77.78
## 107	2	2	0	9	9	5	0	4	0	3	55	0	0	40.91	100.00
## 108	2	8	6	15	21	2	3	2	0	11	87	0	0	50.00	25.00
## 109	0	0	0	0	0	0	1	0	0	2	1	0	0	100.00	NaN
## 110	217	281	87	404	491	121	121	30	72	169	2070	12	0	51.50	77.22
## 111	13	15	10	43	53	21	10	11	8	53	348	0	0	43.12	86.67
## 112	112	168	149	165	314	69	65	48	26	209	1143	1	0	73.23	66.67
## 113	1	2	0	2	2	9	3	6	0	3	41	0	0	23.08	50.00
## 114	22	33	7	55	62	58	29	16	7	65	336	0	0	36.36	66.67
## 115	24	41	30	77	107	11	36	4	26	54	385	0	0	64.00	58.54
## 116	65	79	11	78	89	65	46	17	7	64	650	0	0	43.84	82.28
## 117	68	94	55	127	182	103	72	42	5	156	988	1	0	53.66	72.34
## 118	5	8	5	50	55	41	22	19	19	68	425	0	0	37.75	62.50
## 119	17	21	3	13	16	19	4	2	2	11	128	0	0	42.11	80.95
## 120	247	273	59	245	304	331	128	66	45	165	2689	5	0	49.38	90.48
## 121	515	694	54	515	569	529	236	90	33	166	3747	36	10	49.62	74.21
## 122	10	10	13	58	71	31	18	9	5	48	288	1	0	40.87	100.00
## 123	27	38	30	105	135	52	27	12	30	85	559	0	0	45.56	71.05
## 124	13	19	9	38	47	58	19	8	5	24	277	0	0	46.94	68.42
## 125	26	37	32	251	283	108	36	54	13	166	1228	1	0	40.85	70.27
## 126	11	13	10	53	63	46	12	6	1	34	249	1	1	35.63	84.62
## 127	127	165	21	230	251	129	60	49	12	120	1637	0	0	40.14	76.97
## 128	0	0	1	1	2	0	0	0	0	0	11	0	0	80.00	NaN
## 129	191	314	164	282	446	203	98	54	51	129	2166	11	0	56.37	60.83
## 130	116	153	63	265	328	268	123	87	51	190	2010	3	1	48.31	75.82
## 131	40	64	48	133	181	59	35	41	17	101	805	0	0	49.48	62.50
## 132	22	48	52	150	202	34	48	12	23	71	549	2	0	76.52	45.83
## 133	2	4	5	49	54	100	44	8	7	33	324	0	0	39.69	50.00
## 134	2	3	6	11	17	4	2	3	2	9	60	0	0	42.11	66.67
## 135	180	216	48	209	257	400	145	66	16	103	2307	5	1	45.44	83.33

## 136	87	117	38	106	144	69	46	18	17	99	772	0	0	48.78	74.36
## 137	103	125	35	173	208	183	86	112	35	145	1701	0	0	46.20	82.40
## 138	96	120	64	277	341	65	68	37	29	119	1717	3	0	48.71	80.00
## 139	341	415	167	650	817	678	247	87	47	174	3842	58	29	63.21	82.17
## 140	11	20	8	29	37	11	8	2	11	14	167	0	0	49.15	55.00
## 141	71	78	25	119	144	233	115	47	6	114	1259	1	0	41.09	91.03
## 142	93	126	86	253	339	31	38	16	30	102	1132	9	0	62.33	73.81
## 143	38	41	24	104	128	80	37	22	14	84	642	1	0	47.58	92.68
## 144	40	62	65	73	138	18	31	17	23	105	559	1	0	56.12	64.52
## 145	153	188	19	139	158	114	58	38	8	98	1093	0	0	43.57	81.38
## 146	268	303	36	187	223	152	135	34	8	113	1760	0	0	48.75	88.45
## 147	2	2	0	1	1	0	0	0	0	0	5	0	0	100.00	100.00
## 148	2	2	2	4	6	4	0	2	0	6	35	0	0	18.52	100.00
## 149	36	43	12	62	74	72	39	10	7	34	448	3	0	41.52	83.72
## 150	57	72	21	85	106	217	56	34	9	88	953	0	0	42.74	79.17
## 151	51	75	43	68	111	28	34	28	3	91	512	0	0	44.30	68.00
## 152	87	148	57	137	194	55	71	53	16	124	973	0	0	57.33	58.78
## 153	32	39	28	115	143	41	30	28	28	103	717	1	0	41.67	82.05
## 154	110	149	115	288	403	70	68	20	34	133	1250	13	0	44.22	73.83
## 155	266	356	73	215	288	387	237	61	17	242	2127	8	0	41.61	74.72
## 156	96	157	229	366	595	75	92	44	59	182	1656	19	0	64.82	61.15
## 157	68	97	73	194	267	30	51	7	27	108	866	8	0	55.75	70.10
## 158	6	6	11	26	37	4	3	4	1	23	107	0	0	38.64	100.00
## 159	92	112	28	193	221	470	173	104	28	219	1979	6	0	37.67	82.14
## 160	81	108	94	175	269	36	46	19	30	81	982	8	0	52.88	75.00
## 161	57	76	18	69	87	54	42	27	9	51	553	0	0	43.04	75.00
## 162	18	22	20	54	74	28	11	16	1	39	354	0	0	40.79	81.82
## 163	2	2	0	0	0	0	0	1	1	0	8	0	0	0.00	100.00
## 164	2	3	3	14	17	19	9	4	3	11	78	0	0	46.67	66.67
## 165	44	72	61	125	186	85	48	45	28	107	1155	3	0	47.26	61.11
## 166	46	60	56	159	215	96	54	28	20	134	907	0	0	47.13	76.67
## 167	58	71	80	245	325	252	112	97	10	133	1655	4	0	43.52	81.69
## 168	77	108	66	459	525	500	204	74	61	229	2198	11	0	52.74	71.30
## 169	6	7	24	45	69	30	16	22	5	43	294	0	0	59.42	85.71
## 170	52	67	72	133	205	51	52	25	23	105	781	0	0	53.97	77.61
## 171	90	138	70	161	231	125	95	41	31	157	1252	1	0	52.52	65.22
## 172	361	415	32	193	225	369	252	63	21	214	2499	1	0	43.04	86.99
## 173	94	155	274	486	760	207	45	52	50	224	2062	14	0	63.02	60.65
## 174	116	132	39	247	286	163	123	49	29	130	2208	2	0	43.61	87.88
## 175	4	6	1	2	3	2	5	1	0	0	15	0	0	40.00	66.67
## 176	37	53	28	77	105	51	34	18	7	54	546	0	0	47.58	69.81
## 177	4	6	1	39	40	11	11	6	4	14	206	0	0	39.45	66.67
## 178	6	6	3	9	12	6	16	1	1	10	36	0	0	35.00	100.00
## 179	257	281	39	302	341	352	179	52	20	117	2622	12	1	49.34	91.46
## 180	38	41	7	71	78	135	30	23	5	64	659	0	0	48.76	92.68
## 181	206	288	242	436	678	291	193	70	70	258	2586	29	2	55.32	71.53
## 182	20	27	20	40	60	9	14	5	2	10	195	0	0	68.33	74.07
## 183	24	36	18	80	98	132	86	31	7	59	570	0	0	34.18	66.67
## 184	2	2	1	5	6	1	0	0	1	2	27	0	0	41.67	100.00
## 185	14	16	7	45	52	32	9	6	4	22	220	0	0	49.21	87.50
## 186	162	206	122	447	569	101	104	43	74	227	2091	16	0	40.81	78.64
## 187	50	69	41	77	118	84	47	21	7	106	588	0	0	48.03	72.46

## 188	364	463	43	241	284	281	200	59	18	131	2476	0	0	41.65	78.62
## 189	45	60	20	51	71	73	60	33	15	59	651	0	0	46.50	75.00
## 190	151	222	126	326	452	123	91	41	30	147	1888	5	0	56.94	68.02
## 191	207	264	76	238	314	338	188	82	17	156	2123	9	1	44.23	78.41
## 192	109	145	195	301	496	88	101	96	47	189	1815	7	0	44.85	75.17
## 193	3	3	0	0	0	3	1	0	0	1	13	0	0	22.22	100.00
## 194	10	18	2	43	45	47	14	15	2	29	307	0	0	36.25	55.56
## 195	29	47	120	187	307	64	47	44	29	135	861	0	0	48.59	61.70
## 196	119	142	62	215	277	98	75	55	34	235	1409	1	0	42.71	83.80
## 197	49	62	35	164	199	341	126	70	13	179	1582	5	0	44.10	79.03
## 198	376	454	87	231	318	116	152	48	13	162	1889	0	0	43.43	82.82
## 199	106	129	67	333	400	225	139	92	26	156	2377	3	0	45.76	82.17
## 200	61	72	19	96	115	64	41	25	9	65	657	0	0	36.94	84.72
## 201	5	12	7	15	22	9	3	2	6	7	110	0	0	47.73	41.67
## 202	2	2	0	6	6	5	0	2	0	5	45	0	0	38.10	100.00
## 203	42	55	15	70	85	110	34	26	6	55	561	0	0	46.99	76.36
## 204	95	146	113	169	282	51	51	31	93	154	1191	5	0	56.29	65.07
## 205	104	137	129	265	394	66	72	21	60	153	1385	7	0	47.64	75.91
## 206	4	8	4	26	30	15	8	7	6	32	141	0	0	44.90	50.00
## 207	68	86	51	178	229	88	66	24	14	74	997	1	0	43.60	79.07
## 208	1	2	2	4	6	3	2	4	0	9	31	0	0	57.14	50.00
## 209	216	276	88	378	466	89	103	36	140	215	2231	18	0	54.84	78.26
## 210	104	145	62	156	218	44	34	33	13	79	830	1	0	38.56	71.72
## 211	58	68	45	189	234	397	143	81	10	105	1656	6	1	54.32	85.29
## 212	5	5	8	9	17	6	7	2	5	4	64	0	0	24.14	100.00
## 213	175	201	33	172	205	585	141	91	25	69	2491	32	0	48.99	87.06
## 214	49	63	17	36	53	53	21	7	5	50	330	0	0	38.62	77.78
## 215	86	102	20	115	135	172	82	39	15	96	1159	1	0	39.93	84.31
## 216	29	38	7	23	30	20	12	9	0	21	224	0	0	41.80	76.32
## 217	142	173	16	118	134	183	104	43	25	78	1391	0	0	44.56	82.08
## 218	166	238	236	520	756	77	117	29	98	219	2105	27	0	63.42	69.75
## 219	0	2	2	20	22	27	10	2	0	7	104	0	0	43.90	0.00
## 220	77	113	14	78	92	178	80	27	12	59	800	1	0	40.71	68.14
## 221	243	279	57	281	338	204	88	72	28	84	2163	4	0	51.21	87.10
## 222	68	87	29	229	258	114	56	42	21	136	1342	2	0	42.61	78.16
## 223	199	313	229	471	700	245	117	46	47	217	2227	23	0	67.98	63.58
## 224	10	16	31	19	50	4	9	7	8	15	161	0	0	51.06	62.50
## 225	34	48	62	237	299	121	50	54	44	149	1262	0	0	41.99	70.83
## 226	225	277	24	151	175	109	101	50	18	125	1496	0	0	47.89	81.23
## 227	256	294	45	297	342	288	176	83	20	159	2307	8	1	45.72	87.07
## 228	30	40	31	135	166	57	32	38	33	86	754	0	0	44.54	75.00
## 229	206	314	89	334	423	551	255	76	33	162	2565	24	4	43.59	65.61
## 230	92	118	77	199	276	184	80	42	22	149	1432	1	0	51.91	77.97
## 231	0	0	0	3	3	5	1	0	0	2	17	0	0	33.33	NaN
## 232	348	444	195	507	702	148	122	59	114	146	2912	40	0	56.34	78.38
## 233	229	265	33	160	193	215	99	33	19	108	1444	1	0	52.86	86.42
## 234	0	0	1	6	7	4	0	0	0	3	23	0	0	33.33	NaN
## 235	179	216	35	180	215	437	186	70	29	140	2288	9	0	46.94	82.87
## 236	16	24	10	49	59	23	20	15	4	39	231	0	0	33.33	66.67
## 237	216	252	21	144	165	298	112	50	10	145	1543	2	0	41.54	85.71
## 238	96	139	170	412	582	184	97	83	21	190	1808	10	0	54.77	69.06
## 239	251	327	65	392	457	375	178	50	32	88	2769	18	2	49.96	76.76

##	240	91	106	14	95	109	64	46	30	17	71	976	0	0	44.78	85.85
##	241	50	65	35	248	283	124	90	65	9	107	1683	1	0	39.49	76.92
##	242	14	16	7	68	75	21	13	9	7	33	285	0	0	41.51	87.50
##	243	41	62	58	167	225	46	30	13	43	105	800	2	0	48.55	66.13
##	244	88	119	53	230	283	58	53	19	26	72	1216	2	0	48.63	73.95
##	245	5	9	2	2	4	2	2	2	1	3	29	0	0	33.33	55.56
##	246	11	15	1	21	22	30	6	11	2	12	148	1	0	41.67	73.33
##	247	0	0	3	5	8	2	0	3	0	4	22	0	0	0.00	NaN
##	248	34	39	62	246	308	95	49	59	16	120	1229	2	0	43.01	87.18
##	249	52	84	116	170	286	36	46	26	35	144	906	0	0	59.62	61.90
##	250	100	139	92	218	310	72	55	34	37	131	1197	6	0	65.62	71.94
##	251	41	65	50	143	193	59	57	29	19	107	873	0	0	42.86	63.08
##	252	181	205	43	248	291	254	126	56	22	150	2085	1	0	47.92	88.29
##	253	120	154	45	199	244	189	104	65	16	240	1762	0	0	39.56	77.92
##	254	372	497	61	296	357	493	206	66	16	100	2804	20	7	46.62	74.85
##	255	0	0	0	4	4	7	2	3	0	3	25	0	0	33.33	NaN
##	256	7	9	19	44	63	21	18	12	4	49	242	0	0	38.95	77.78
##	257	241	306	108	318	426	60	107	65	189	227	2429	7	0	50.61	78.76
##	258	28	36	64	246	310	100	37	77	25	112	1155	2	0	43.12	77.78
##	259	6	13	9	29	38	58	18	12	5	15	244	0	0	42.17	46.15
##	260	16	27	19	32	51	20	12	5	2	28	220	1	0	52.69	59.26
##	261	37	39	15	143	158	91	46	32	5	82	937	0	0	49.21	94.87
##	262	108	144	85	286	371	97	60	45	48	143	1506	4	0	47.05	75.00
##	263	47	129	214	271	485	97	79	36	46	98	1256	15	0	59.70	36.43
##	264	79	98	28	172	200	417	74	83	6	32	1881	9	1	43.80	80.61
##	265	2	2	4	11	15	4	5	6	2	12	73	0	0	30.00	100.00
##	266	49	89	121	186	307	96	44	58	29	97	1158	4	0	61.44	55.06
##	267	17	22	16	63	79	35	37	14	6	58	380	0	0	42.86	77.27
##	268	324	402	184	504	688	240	187	88	61	208	2975	31	0	54.04	80.60
##	269	91	113	88	256	344	117	79	71	31	145	1498	2	0	46.35	80.53
##	270	24	35	25	39	64	10	14	3	4	33	197	0	0	62.71	68.57
##	271	29	32	8	61	69	46	28	14	0	77	434	0	0	37.13	90.62
##	272	68	78	27	118	145	167	92	62	5	154	1175	0	0	40.21	87.18
##	273	13	28	57	131	188	43	45	36	17	82	640	2	0	43.06	46.43
##	274	17	22	15	37	52	12	6	11	1	21	208	0	0	56.06	77.27
##	275	472	555	141	234	375	340	101	117	21	80	2739	11	0	53.94	85.05
##	276	80	91	59	340	399	116	70	16	12	97	1176	6	0	38.92	87.91
##	277	116	135	43	182	225	281	103	57	21	143	1438	2	1	40.41	85.93
##	278	78	89	49	209	258	171	69	42	12	166	1582	2	0	41.01	87.64
##	279	18	19	9	22	31	10	10	7	2	19	151	0	0	40.58	94.74
##	280	5	6	8	15	23	2	4	2	2	16	79	0	0	59.26	83.33
##	281	22	31	48	78	126	25	16	12	12	53	361	0	0	52.81	70.97
##	282	170	182	27	333	360	280	158	51	16	101	2242	6	1	43.91	93.41
##	283	4	5	4	7	11	0	1	1	2	11	48	0	0	34.48	80.00
##	284	59	79	16	112	128	146	87	57	12	99	942	0	0	39.70	74.68
##	285	4	4	6	39	45	22	9	6	0	31	250	0	0	42.40	100.00
##	286	96	125	154	518	672	105	81	29	16	115	2005	38	0	49.56	76.80
##	287	149	190	157	363	520	99	107	37	193	203	2595	11	0	53.06	78.42
##	288	498	772	137	605	742	359	246	52	51	197	3451	46	6	55.32	64.51
##	289	31	45	16	65	81	151	63	13	4	65	677	0	0	42.09	68.89
##	290	114	126	61	176	237	163	72	62	14	117	1435	0	0	43.99	90.48
##	291	10	12	17	52	69	27	7	12	6	27	294	0	0	47.87	83.33

##	292	31	38	35	167	202	197	78	66	29	158	1396	1	0	42.30	81.58
##	293	18	21	13	115	128	150	55	33	6	74	758	1	0	43.55	85.71
##	294	152	177	79	262	341	495	197	79	25	116	2557	16	0	47.90	85.88
##	295	92	102	28	112	140	163	71	23	5	68	923	4	0	43.60	90.20
##	296	8	9	0	7	7	14	12	0	2	7	73	1	0	48.65	88.89
##	297	27	37	38	77	115	35	45	21	7	70	496	0	0	39.51	72.97
##	298	8	9	12	22	34	1	6	2	0	16	85	1	0	48.28	88.89
##	299	27	41	50	233	283	77	33	37	11	69	1032	2	0	39.19	65.85
##	300	8	13	15	29	44	4	11	2	7	23	141	0	0	48.15	61.54
##	301	11	22	15	29	44	15	12	3	3	22	132	0	0	43.48	50.00
##	302	24	28	34	79	113	34	18	20	13	71	447	0	0	36.25	85.71
##	303	319	422	47	411	458	350	259	125	58	186	3311	9	0	45.88	75.59
##	304	30	39	5	78	83	75	23	28	4	80	540	0	0	43.54	76.92
##	305	15	15	4	11	15	17	12	7	2	22	148	0	0	36.14	100.00
##	306	106	144	92	215	307	148	112	74	76	272	1881	0	0	51.68	73.61
##	307	77	99	36	134	170	132	65	42	5	101	1182	0	0	44.80	77.78
##	308	15	18	15	47	62	148	33	32	4	28	532	0	0	42.07	83.33
##	309	8	8	5	20	25	5	3	4	6	10	111	1	0	50.00	100.00
##	310	118	135	48	188	236	140	86	20	17	111	1120	9	0	49.53	87.41
##	311	100	136	66	302	368	335	103	78	63	146	1911	10	3	50.91	73.53
##	312	41	52	33	30	63	18	14	3	2	43	285	0	0	54.31	78.85
##	313	10	12	4	22	26	16	7	5	1	27	188	0	0	37.04	83.33
##	314	141	169	33	149	182	450	103	73	14	139	1849	6	0	42.79	83.43
##	315	39	57	22	34	56	13	21	10	6	41	253	0	0	56.79	68.42
##	316	86	127	73	260	333	77	92	42	53	176	1489	4	0	53.73	67.72
##	317	40	60	15	86	101	108	55	32	21	88	750	0	0	44.41	66.67
##	318	219	340	231	583	814	87	122	56	95	210	2377	35	0	65.93	64.41
##	319	65	77	15	117	132	84	69	28	15	123	837	0	0	46.70	84.42
##	320	4	5	4	14	18	18	8	8	5	13	122	0	0	41.86	80.00
##	321	240	272	23	223	246	262	148	32	19	116	1805	6	2	48.38	88.24
##	322	183	238	55	273	328	429	183	70	38	153	2746	6	0	43.68	76.89
##	323	0	0	1	0	1	0	0	0	0	1	5	0	0	40.00	NaN
##	324	26	40	36	152	188	134	57	43	11	99	759	0	0	41.83	65.00
##	325	3	4	5	12	17	13	4	9	2	15	119	0	0	40.00	75.00
##	326	123	161	97	172	269	162	88	103	42	208	1562	0	0	46.91	76.40
##	327	58	83	39	93	132	34	31	20	19	67	528	0	0	55.13	69.88
##	328	185	224	225	579	804	140	159	20	52	245	2347	43	0	54.66	82.59
##	329	65	80	28	113	141	186	81	67	10	125	1148	0	0	41.10	81.25
##	330	69	81	41	134	175	174	86	69	20	117	1306	1	0	43.14	85.19
##	331	19	22	5	28	33	23	10	10	2	24	214	0	0	45.45	86.36
##	332	55	79	106	248	354	119	42	56	37	133	1281	3	0	60.98	69.62
##	333	138	175	48	231	279	189	97	54	14	113	1423	0	0	43.26	78.86
##	334	172	190	59	222	281	112	61	89	43	155	1988	1	0	48.38	90.53
##	335	81	104	58	122	180	33	39	17	13	64	579	2	0	52.66	77.88
##	336	177	248	58	144	202	133	99	32	16	65	1241	5	0	60.77	71.37
##	337	11	12	8	32	40	46	22	7	5	18	283	0	0	38.36	91.67
##	338	16	24	2	34	36	63	34	6	4	23	378	0	0	36.72	66.67
##	339	18	21	4	45	49	36	22	16	3	46	313	0	0	33.73	85.71
##	340	203	248	58	279	337	279	100	80	14	166	2214	4	0	44.76	81.85
##	341	48	71	209	327	536	102	66	53	64	213	1487	2	0	53.52	67.61
##	342	20	41	21	87	108	38	31	18	7	53	403	0	0	43.23	48.78
##	343	325	392	40	201	241	421	142	61	15	152	2640	5	0	49.12	82.91

##	344	12	16	99	143	242	25	27	15	28	96	608	2	0	77.57	75.00
##	345	132	176	142	451	593	290	117	88	21	195	2100	10	0	52.88	75.00
##	346	402	531	141	626	767	316	216	49	21	233	3324	40	0	45.95	75.71
##	347	28	42	13	37	50	72	25	37	8	60	500	0	0	35.81	66.67
##	348	59	122	267	288	555	53	41	56	109	160	1635	13	0	67.14	48.36
##	349	38	47	29	158	187	66	38	23	12	68	887	0	0	44.63	80.85
##	350	78	98	49	180	229	150	69	47	26	177	1449	0	0	46.84	79.59
##	351	290	392	60	308	368	201	164	31	15	179	2148	3	0	43.37	73.98
##	352	0	0	0	2	2	0	0	0	0	0	5	0	0	25.00	NaN
##	353	59	71	68	143	211	80	56	39	15	110	958	1	0	51.24	83.10
##	354	22	35	45	114	159	64	43	20	43	58	709	3	0	43.37	62.86
##	355	63	76	53	154	207	74	55	20	7	99	747	2	0	45.85	82.89
##	356	82	100	27	148	175	88	39	48	8	105	1162	0	0	44.09	82.00
##	357	155	191	84	253	337	248	123	103	35	191	2123	3	0	52.14	81.15
##	358	0	0	1	3	4	8	5	5	0	5	64	0	0	46.88	NaN
##	359	38	54	44	197	241	76	37	28	12	111	774	0	0	43.59	70.37
##	360	35	42	71	109	180	43	19	24	11	71	659	1	0	44.35	83.33
##	361	106	145	148	451	599	469	211	57	31	143	2735	28	4	48.21	73.10
##	362	17	39	97	164	261	105	32	45	14	112	1041	2	0	51.73	43.59
##	363	16	20	16	59	75	28	10	14	11	42	411	0	0	39.33	80.00
##	364	200	259	128	216	344	154	92	75	23	243	1859	5	0	38.83	77.22
##	365	5	7	12	19	31	4	4	1	5	17	93	1	0	50.00	71.43
##	366	15	23	19	86	105	46	26	14	7	42	425	0	0	41.99	65.22
##	367	669	739	59	270	329	371	192	112	65	192	3425	3	0	50.98	90.53
##	368	42	55	27	128	155	120	62	40	11	99	974	1	1	39.32	76.36
##	369	21	23	23	39	62	31	16	8	5	61	299	0	0	45.08	91.30
##	370	82	108	69	336	405	69	112	30	85	92	1457	6	0	54.60	75.93
##	371	15	18	34	65	99	30	18	12	7	63	396	0	0	36.26	83.33
##	372	16	21	26	70	96	37	17	19	11	40	372	0	0	35.25	76.19
##	373	152	170	47	241	288	235	91	37	31	158	1592	1	0	45.41	89.41
##	374	271	322	70	259	329	283	167	77	17	183	2419	2	0	48.48	84.16
##	375	27	30	21	77	98	59	28	45	12	93	746	0	0	44.95	90.00
##	376	23	42	61	76	137	39	22	16	26	64	494	2	0	55.20	54.76
##	377	86	119	55	106	161	155	94	67	27	120	1138	0	0	41.89	72.27
##	378	1	2	0	6	6	1	3	2	0	2	25	0	0	71.43	50.00
##	379	5	9	15	29	44	6	4	14	4	5	167	0	0	41.51	55.56
##	380	31	41	28	42	70	16	21	17	5	53	294	0	0	43.93	75.61
##	381	112	143	69	165	234	341	139	87	26	131	1829	3	0	51.40	78.32
##	382	4	7	1	4	5	7	4	1	1	5	36	0	0	42.86	57.14
##	383	153	182	69	190	259	84	68	37	13	136	1119	3	0	50.00	84.07
##	384	394	534	84	413	497	269	200	60	39	160	2534	14	0	42.69	73.78
##	385	144	195	120	377	497	132	106	30	33	159	1745	21	0	52.53	73.85
##	386	45	60	9	85	94	44	26	14	9	69	490	0	0	47.21	75.00
##	387	69	87	69	243	312	197	102	126	41	191	1849	0	0	42.55	79.31
##	388	33	49	34	100	134	26	25	9	19	75	458	0	0	50.99	67.35
##	389	26	36	6	36	42	22	24	10	3	18	238	0	0	43.24	72.22
##	390	39	45	19	166	185	77	54	31	14	145	1056	0	0	44.22	86.67
##	391	6	8	6	8	14	8	3	7	3	15	98	0	0	48.57	75.00
##	392	116	138	63	283	346	130	93	83	34	209	1623	3	0	45.54	84.06
##	393	313	361	40	314	354	618	195	71	31	112	2679	36	5	44.06	86.70
##	394	661	771	113	557	670	274	226	66	112	205	3706	39	1	54.82	85.73
##	395	0	1	2	2	4	2	2	1	0	4	29	0	0	61.54	0.00

## 396	3	5	3	7	10	9	3	0	0	3	48	0	0	45.00	60.00
## 397	0	0	0	0	0	0	0	0	0	0	0	0	0	NaN	NaN
## 398	70	101	67	92	159	33	35	17	25	75	651	1	0	59.81	69.31
## 399	19	23	95	200	295	60	44	39	15	180	828	0	0	42.67	82.61
## 400	38	51	112	150	262	27	45	45	51	123	885	5	0	59.33	74.51
## 401	99	116	39	152	191	240	94	25	13	123	1246	3	0	47.91	85.34
## 402	113	129	67	357	424	186	89	68	40	149	2108	7	0	50.06	87.60
## 403	180	213	23	153	176	212	80	49	8	132	1838	0	0	48.08	84.51
## 404	25	70	89	171	260	56	51	18	88	114	926	3	0	57.77	35.71
## 405	49	64	12	94	106	214	81	33	8	88	983	3	0	41.50	76.56
## 406	133	160	27	224	251	524	114	91	22	126	2131	17	0	44.01	83.12
## 407	94	104	39	186	225	99	78	30	7	118	1056	0	0	44.25	90.38
## 408	38	70	34	104	138	38	27	22	34	44	588	0	0	45.36	54.29
## 409	152	200	172	495	667	115	120	37	53	190	2326	36	0	58.85	76.00
## 410	306	358	46	194	240	293	145	51	18	159	2261	5	0	49.39	85.47
## 411	26	31	45	94	139	53	22	38	22	117	655	0	0	37.00	83.87
## 412	79	105	119	161	280	68	59	16	30	126	973	3	0	52.82	75.24
## 413	139	192	109	142	251	105	63	56	34	114	1195	2	0	39.13	72.40
## 414	307	334	17	296	313	235	156	34	67	99	2241	5	1	56.03	91.92
## 415	45	51	11	56	67	93	36	26	5	61	623	0	0	37.67	88.24
## 416	42	57	13	32	45	67	24	19	1	32	342	1	0	40.50	73.68
## 417	28	35	26	95	121	40	20	22	12	65	601	0	0	48.89	80.00
## 418	27	34	22	132	154	95	43	35	10	97	941	0	0	43.01	79.41
## 419	32	45	145	281	426	117	73	50	62	179	1538	4	0	45.60	71.11
## 420	160	179	18	143	161	253	128	42	14	142	1919	0	0	44.69	89.39
## 421	64	75	18	70	88	57	47	39	14	72	690	0	0	44.55	85.33
## 422	1	4	2	1	3	0	0	0	1	0	14	0	0	60.00	25.00
## 423	510	558	44	233	277	425	191	50	18	109	2849	16	2	46.26	91.40
## 424	83	125	132	286	418	103	67	40	102	169	1533	3	0	64.07	66.40
## 425	5	12	2	17	19	3	6	4	5	13	76	0	0	39.29	41.67
## 426	34	45	48	83	131	34	29	10	13	69	464	0	0	41.92	75.56
## 427	2	3	10	5	15	10	4	3	2	13	97	0	0	61.54	66.67
## 428	278	342	53	230	283	150	116	51	53	152	2051	2	0	47.54	81.29
## 429	3	4	3	14	17	11	1	7	9	22	129	0	0	32.08	75.00
## 430	0	1	3	12	15	4	4	2	5	9	58	0	0	30.43	0.00
## 431	20	28	49	96	145	98	43	30	11	89	597	1	0	40.91	71.43
## 432	127	192	114	357	471	149	119	43	44	185	1625	18	0	51.88	66.15
## 433	27	41	11	33	44	59	43	19	6	43	362	0	0	37.64	65.85
## 434	46	60	34	143	177	33	50	24	12	95	735	2	0	45.78	76.67
## 435	19	28	40	100	140	53	24	83	32	113	862	0	0	43.48	67.86
## 436	33	46	27	114	141	50	36	20	20	66	687	0	0	44.22	71.74
## 437	0	0	0	15	15	23	7	5	0	17	87	0	0	24.32	NaN
## 438	75	105	63	173	236	94	83	38	24	136	1316	0	0	47.22	71.43
## 439	12	13	2	17	19	50	10	6	1	11	201	1	0	50.00	92.31
## 440	72	100	42	196	238	130	71	32	12	118	1001	3	0	56.04	72.00
## 441	11	16	24	36	60	12	16	4	11	28	162	0	0	53.33	68.75
## 442	0	2	2	0	2	1	2	0	0	2	4	0	0	50.00	0.00
## 443	54	73	47	151	198	40	32	22	21	81	716	0	0	58.90	73.97
## 444	25	31	16	89	105	185	62	44	15	112	969	0	0	45.36	80.65
## 445	343	440	40	266	306	447	181	83	23	172	3001	11	0	51.24	77.95
## 446	0	0	0	0	0	0	0	0	0	0	0	0	0	0.00	NaN
## 447	325	438	251	722	973	573	230	65	39	279	3619	65	14	61.51	74.20



##	448	350	413	87	279	366	128	86	57	10	103	1976	0	0	47.28	84.75
##	449	7	8	7	27	34	13	7	7	7	39	141	0	0	42.11	87.50
##	450	62	81	89	282	371	98	60	61	42	162	1817	4	0	45.27	76.54
##	451	4	7	4	4	8	6	1	5	1	10	60	0	0	43.75	57.14
##	452	11	15	23	38	61	23	13	14	6	40	255	0	0	38.71	73.33
##	453	95	131	42	209	251	221	97	80	24	181	1988	0	0	48.50	72.52
##	454	184	207	32	171	203	298	146	49	20	125	1793	0	0	44.85	88.89
##	455	4	7	1	12	13	41	10	7	0	20	135	0	0	34.00	57.14
##	456	0	2	5	6	11	1	1	0	2	7	32	0	0	66.67	0.00
##	457	0	0	1	13	14	10	5	6	1	7	70	0	0	30.30	NaN
##	458	15	19	29	51	80	9	14	3	11	50	268	1	0	61.80	78.95
##	459	34	43	20	119	139	67	53	43	12	104	810	0	0	42.31	79.07
##	460	101	124	68	232	300	66	64	27	31	97	1131	1	0	45.83	81.45
##	461	1	2	2	8	10	1	4	1	0	3	20	0	0	50.00	50.00
##	462	26	44	12	70	82	98	65	25	5	67	454	0	0	32.09	59.09
##	463	22	37	75	118	193	48	41	16	33	74	609	0	0	64.44	59.46
##	464	78	100	8	140	148	136	57	43	17	57	1208	0	0	43.87	78.00
##	465	98	131	19	103	122	196	53	45	16	79	1109	0	0	37.35	74.81
##	466	18	25	46	56	102	24	15	10	19	56	340	2	0	53.49	72.00
##	467	53	70	23	115	138	91	58	13	6	118	955	0	0	45.70	75.71
##	468	10	13	27	80	107	53	32	4	14	57	351	2	0	38.46	76.92
##	469	81	116	95	200	295	142	97	43	23	138	1282	2	0	45.29	69.83
##	470	7	9	3	9	12	11	7	1	0	6	55	0	0	32.14	77.78
##	471	7	9	2	11	13	18	11	1	2	8	69	0	0	34.62	77.78
##	472	14	17	10	50	60	10	11	6	5	26	274	1	0	45.38	82.35
##	473	119	150	65	182	247	103	56	46	20	63	1240	0	0	50.75	79.33
##	474	245	327	56	262	318	183	134	46	11	125	2078	5	0	45.19	74.92
##	475	4	5	8	17	25	7	8	5	5	24	106	0	0	59.38	80.00
##	476	58	70	28	153	181	127	76	33	7	115	1125	0	0	44.03	82.86
##	477	39	56	57	57	114	50	30	24	13	67	590	0	0	46.72	69.64
##	478	39	57	70	115	185	62	35	14	12	52	621	2	0	42.17	68.42
##	479	26	39	22	73	95	67	33	16	6	48	422	0	0	53.28	66.67
##	480	148	172	56	189	245	448	110	89	9	98	2025	6	2	45.90	86.05
##	481	108	142	116	286	402	180	129	37	49	199	1612	9	0	51.82	76.06
##	482	128	168	157	264	421	29	41	47	64	143	1553	9	0	49.34	76.19
##	483	37	59	84	87	171	31	20	21	57	128	648	0	0	48.00	62.71
##	484	17	24	11	34	45	36	18	13	13	34	310	0	0	42.31	70.83
##	485	254	283	30	250	280	495	140	123	38	193	2757	10	1	39.30	89.75
##	486	172	205	30	143	173	106	55	104	14	102	1814	0	0	43.32	83.90
##	487	119	201	236	417	653	197	125	66	86	195	2307	19	0	62.94	59.20
##	488	6	9	6	17	23	31	5	9	3	13	166	0	0	43.86	66.67
##	489	0	0	0	4	4	3	1	0	0	3	17	0	0	21.43	NaN
##	490	9	16	27	96	123	25	15	16	6	43	358	1	0	42.11	56.25
##	491	25	33	15	61	76	70	25	21	4	65	492	0	0	35.95	75.76
##	492	140	167	95	237	332	131	132	128	50	200	2121	2	0	47.57	83.83
##	493	8	8	6	13	19	8	4	11	0	7	108	0	0	50.00	100.00
##	494	367	474	131	425	556	415	169	65	36	228	3144	24	2	47.98	77.43
##	495	87	124	100	228	328	50	59	31	30	102	1101	10	0	48.51	70.16
##	496	1	1	3	4	7	4	0	0	1	3	37	0	0	50.00	100.00
##	497	190	246	179	333	512	371	154	83	61	170	2628	15	1	45.57	77.24
##	498	18	26	71	95	166	75	42	54	5	88	687	0	0	54.55	69.23
##	499	37	47	15	122	137	112	48	28	13	56	786	0	0	37.91	78.72

##	500	163	199	37	68	105	138	85	27	6	112	1032	1	0	50.64	81.91
##	501	22	29	42	80	122	15	23	8	21	55	375	1	0	63.95	75.86
##	502	0	0	1	1	2	1	0	0	0	0	4	0	0	0.00	NaN
##	503	2	2	1	5	6	3	2	0	2	3	38	0	0	57.14	100.00
##	504	2	4	8	31	39	8	3	4	3	13	164	0	0	33.65	50.00
##	505	200	245	72	174	246	270	186	33	13	120	1923	3	0	44.42	81.63
##	506	19	24	28	96	124	65	34	16	10	80	445	0	0	44.76	79.17
##	507	198	232	82	338	420	252	168	60	37	232	1852	9	0	49.91	85.34
##	508	41	53	9	91	100	124	35	25	10	58	666	3	0	53.70	77.36
##	509	349	399	130	440	570	123	127	42	38	137	2673	28	0	49.91	87.47
##	510	0	0	4	3	7	7	7	3	1	10	30	0	0	15.00	NaN
##	511	9	13	0	30	30	15	10	6	2	17	142	0	0	45.61	69.23
##	512	0	0	3	13	16	4	2	1	0	5	50	1	0	66.67	NaN
##	513	56	69	43	78	121	67	41	16	15	99	765	0	0	42.75	81.16
##	514	42	49	33	130	163	57	37	19	18	68	648	0	0	37.85	85.71
##	515	35	44	31	55	86	42	39	15	8	62	524	0	0	36.86	79.55
##	516	126	168	41	169	210	246	126	41	29	108	1403	2	0	41.92	75.00
##	517	7	20	31	88	119	11	18	6	15	34	329	0	0	81.94	35.00
##	518	2	2	3	8	11	3	2	2	2	5	34	0	0	25.00	100.00
##	519	82	159	231	389	620	69	58	26	173	169	2066	20	0	71.98	51.57
##	520	49	67	37	62	99	34	15	7	12	70	407	0	0	53.79	73.13
##	521	192	228	41	155	196	271	145	45	33	107	1891	2	0	50.57	84.21
##	522	75	88	33	174	207	87	55	32	9	97	1267	0	0	49.74	85.23
##	523	127	187	163	270	433	84	85	33	99	187	1662	10	0	73.16	67.91
##	524	52	60	58	122	180	194	44	92	17	59	1159	0	0	47.42	86.67
##	525	122	165	74	413	487	211	123	65	29	209	1757	11	0	43.70	73.94
##	526	0	0	6	4	10	8	3	5	0	9	39	0	0	10.00	NaN
##	527	2	2	2	10	12	4	2	1	0	4	30	0	0	15.79	100.00
##	528	1	2	1	5	6	4	4	4	2	6	42	0	0	42.86	50.00
##	529	15	16	6	15	21	10	5	3	4	15	107	0	0	60.00	93.75
##	530	14	27	10	55	65	28	17	10	8	48	320	0	0	38.60	51.85
##	531	53	69	57	148	205	168	57	58	26	95	1100	0	0	44.76	76.81
##	532	0	0	0	0	0	1	0	1	0	1	8	0	0	50.00	NaN
##	533	35	41	15	94	109	90	66	28	7	66	801	0	0	42.44	85.37
##	534	354	416	114	432	546	174	137	58	100	196	2758	20	0	49.80	85.10
##	535	173	237	55	408	463	239	190	36	29	145	2276	14	1	44.83	73.00
##	536	64	77	26	184	210	326	60	43	13	75	1485	2	0	47.96	83.12
##	537	17	22	2	6	8	15	4	4	1	10	99	0	0	45.24	77.27
##	538	30	42	32	61	93	34	26	15	12	84	386	0	0	52.00	71.43
##	539	4	10	16	22	38	6	8	6	4	13	115	1	0	60.71	40.00

```
filter(nba_data, PLAYER == "Joe Harris")
```

##	PLAYER	TEAM	AGE	GP	W	L	MIN	PTS	FGM	FGA	X3PM	X3PA	FTM	FTA	OREB	DREB	
##	1	Joe Harris	BKN	31	74	40	34	1527.2	562	201	440	142	333	18	28	23	141
##	REB	AST	TOV	STL	BLK	PF	FP	DD2	TD3	FGP	FTP						
##	1	164	101	41	34	13	140	1010	0	0	45.68	64.29					

Joe Harris's FGP is 45.68%, and his FTP is 64.29%

1.d. Display the average, min and max PF for each team, in descending order of the team average. You can exclude NAs for this calculation. Which team has the max PF?

```
nba_data %>% group_by(TEAM) %>% summarise(avg_PF = mean(PF), min_PF = min(PF), max_PF = max(PF))  
%>% arrange(desc(avg_PF))
```

```
## # A tibble: 30 × 4  
##   TEAM avg_PF min_PF max_PF  
##   <chr> <dbl> <int> <int>  
## 1 NYK    115.     0    233  
## 2 PHX    108.    32    190  
## 3 NOP    106.     1    245  
## 4 GSW    103.     0    229  
## 5 OKC    102.     5    243  
## 6 HOU    102.     1    258  
## 7 PHI    102.     0    209  
## 8 MIN    101.    10    272  
## 9 LAC    101.     2    219  
## 10 DEN    99.5     9    190  
## # i 20 more rows
```

NYK's team has the highest average PF, at 114.94 points.

1.e. In question 1c, you added a new column called FTP. Impute the missing (or NaN) FTP values as the FGP (also added in 1c) multiplied by the average FTP for that team. Make a second copy of your dataframe, but this time impute missing (or NaN) FTP values with just the average FTP for that team. What assumptions do these data filling methods make? Which is the best way to impute the data, or do you

see a better way, and why? You may impute or remove other variables as you find appropriate. Briefly explain your decisions.

```
nba_data %>% group_by(TEAM) %>% mutate(FTP = ifelse(is.na(FTP), FGP / 100 * mean(FTP, na.rm = TRUE), FTP))
```

```
## # A tibble: 539 × 27
## # Groups:   TEAM [30]
##   PLAYER      TEAM  AGE  GP    W    L   MIN  PTS  FGM  FGA  X3PM  X3PA
##   <chr>      <chr> <int> <int> <int> <int> <dbl> <int> <int> <int> <int> <int>
## 1 AJ Griffin ATL    19   72   34   38 1401.   639  248  533  101  259
## 2 Aaron Hol... ATL    26   63   32   31  845.   247   92  220   36   88
## 3 Bogdan Bo... ATL    30   54   27   27 1509.   756  273  611  146  360
## 4 Bruno Fer... ATL    24   39   13   26  405.   153   59  112    0    4
## 5 Clint Cap... ATL    29   65   35   30 1730.   779  350  536    0    1
## 6 De'Andre ... ATL    25   67   35   32 2126.  1029  379  822  100  286
## 7 Dejounte ... ATL    26   74   38   36 2693.  1515  612 1319  133  387
## 8 Donovan W... ATL    21    2    1    1   4.3     4    2    5    0    2
## 9 Garrison ... ATL    26   54   16   38  686.   257   73  201   63  180
## 10 Jalen Joh... ATL    21   70   35   35 1042.   395  158  322   30  104
## # i 529 more rows
## # i 15 more variables: FTM <int>, FTA <int>, OREB <int>, DREB <int>, REB <int>,
## #   AST <int>, TOV <int>, STL <int>, BLK <int>, PF <int>, FP <int>, DD2 <int>,
## #   TD3 <int>, FGP <dbl>, FTP <dbl>
```

```
nba_data %>% group_by(TEAM) %>% mutate(FTP = ifelse(is.na(FTP), mean(FTP, na.rm = TRUE), FTP))
```

```
## # A tibble: 539 × 27
## # Groups:   TEAM [30]
##   PLAYER      TEAM  AGE  GP    W    L   MIN  PTS  FGM  FGA  X3PM  X3PA
##   <chr>      <chr> <int> <int> <int> <int> <dbl> <int> <int> <int> <int> <int>
## 1 AJ Griffin ATL    19   72   34   38 1401.   639  248  533  101  259
## 2 Aaron Hol... ATL    26   63   32   31  845.   247   92  220   36   88
## 3 Bogdan Bo... ATL    30   54   27   27 1509.   756  273  611  146  360
## 4 Bruno Fer... ATL    24   39   13   26  405.   153   59  112    0    4
## 5 Clint Cap... ATL    29   65   35   30 1730.   779  350  536    0    1
## 6 De'Andre ... ATL    25   67   35   32 2126.  1029  379  822  100  286
## 7 Dejounte ... ATL    26   74   38   36 2693.  1515  612 1319  133  387
## 8 Donovan W... ATL    21    2    1    1   4.3     4    2    5    0    2
## 9 Garrison ... ATL    26   54   16   38  686.   257   73  201   63  180
## 10 Jalen Joh... ATL    21   70   35   35 1042.   395  158  322   30  104
## # i 529 more rows
## # i 15 more variables: FTM <int>, FTA <int>, OREB <int>, DREB <int>, REB <int>,
## #   AST <int>, TOV <int>, STL <int>, BLK <int>, PF <int>, FP <int>, DD2 <int>,
## #   TD3 <int>, FGP <dbl>, FTP <dbl>
```

The first method, FGP \* mean FTP, assumes that there is a relationship between FGP and FTP and they are positively correlated with each other. This could potentially overestimate players with a high FGP and underestimate players with a low FGP. The second method, mean FTP, assumes that there is no such relationship and that the team average is a good approximation. This ignores the potential variability of FTP within each team and the fact that the average can be skewed by outliers.

2. For this question, you will first need to read section 12.6 in the R for Data Science book (<http://r4ds.had.co.nz/tidy-data.html#case-study> (<http://r4ds.had.co.nz/tidy-data.html#case-study>)). Grab the dataset “who” from the tidyr package (tidyr::who), and tidy it as shown in the case study before answering the following questions.

```
library(tidyr)
who <- tidyr::who
who <- who %>%
  pivot_longer(
    cols = new_sp_m014:newrel_f65,
    names_to = "key",
    values_to = "cases",
    values_drop_na = TRUE
  ) %>%
  mutate(
    key = stringr::str_replace(key, "newrel", "new_rel")
  ) %>%
  separate(key, c("new", "var", "sexage")) %>%
  select(-new, -iso2, -iso3) %>%
  separate(sexage, c("sex", "age"), sep = 1)

print(who)
```

```
## # A tibble: 76,046 × 6
##   country    year var   sex  age  cases
##   <chr>      <dbl> <chr> <chr> <chr> <dbl>
## 1 Afghanistan 1997 sp    m    014     0
## 2 Afghanistan 1997 sp    m   1524    10
## 3 Afghanistan 1997 sp    m   2534     6
## 4 Afghanistan 1997 sp    m   3544     3
## 5 Afghanistan 1997 sp    m   4554     5
## 6 Afghanistan 1997 sp    m   5564     2
## 7 Afghanistan 1997 sp    m    65     0
## 8 Afghanistan 1997 sp    f    014     5
## 9 Afghanistan 1997 sp    f   1524    38
## 10 Afghanistan 1997 sp    f   2534    36
## # i 76,036 more rows
```

2.a. Explain why this line “mutate(key = stringr::str\_replace(key,”newrel”, “new\_rel”))” is necessary to properly tidy the data. What happens if you skip this line?

That line is necessary to tidy the data because it fixes the formatting to be consistent so that there is always an underscore between the variable for new and old cases and the type of TB. If skipped, then the data is parsed incorrectly, with “var” being populated with the sex and age values, and “sex” and “age” both being unpopulated.

2.b. How many entries are removed from the dataset when you set values\_drop\_na to true in the pivot\_longer command (in this dataset)?

When we exclude the line to drop the incomplete rows, we end up with 405,440 rows, when those rows are dropped we end up with 76,046 rows meaning 329,394 entries are removed.

2.c. Explain the difference between an explicit and implicit missing value, in general. Can you find any implicit missing values in this dataset? If so, where?

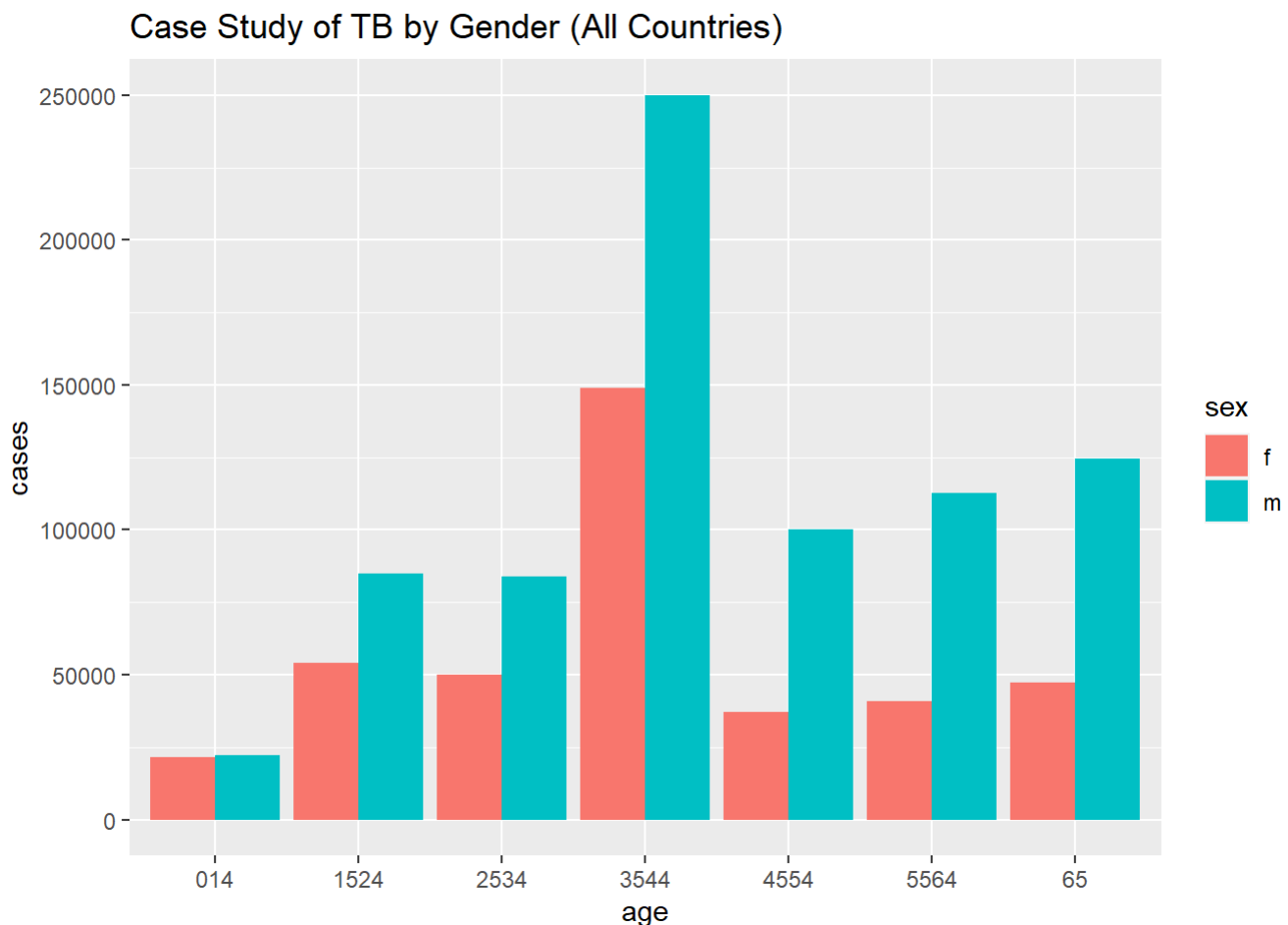
Explicit missing values are the absence of a value that is instead filled by something like N/A or NaN. An implicit missing value, on the other hand, is the absence of something that is inferred by analysis, such as a missing year or range in values. There are some implicit missing variables in this dataset, for example Afghanistan year 2013 only has two rows, for children ages 0-14. Clearly there should be rows for people of other ages, but there are not.

2.d. Looking at the features (country, year, var, sex, age, cases) in the tidied data, are they all appropriately typed? Are there any features you think would be better suited as a different type? Why or why not?

The year feature should probably be an integer instead of a double and cases should also be an integer instead of a double. This is because we only need to use integers for these discrete measurements, as a decimal value would not be meaningful.

2.e. Produce a barplot to show the count of TB cases by gender for all countries. You can create side by side bars for the two genders.

```
library(ggplot2)
ggplot(who, aes(fill=sex, y=cases, x=age)) + geom_bar(position="dodge", stat="identity") + ggtitle("Case Study of TB by Gender (All Countries)")
```



2.f. The table consists of 6 columns. The first shows the Group code, the second shows the year and the last four columns provide the revenue for each quarter of the year. Re-structure this table and show the code you would write to tidy the dataset (using `gather()/pivot_longer()` and `separate()/pivot_wider()`) such that the columns are organized as: Group, Year, Interval\_Type, Interval\_ID and Revenue. How many rows does the new dataset have?

```
revqtr <- read.csv("RevQtr.csv")
print(revqtr)
```

```
##   Group Year Qtr.1 Qtr_2 Qtr.3 Qtr.4
## 1     1 2019    27    90    12    84
## 2     2 2019    42    27    62    19
## 3     3 2019    26    51    58     8
## 4     1 2020    54    70    60    39
## 5     2 2020    17    20    45    99
## 6     3 2020    39    91    78    38
## 7     1 2021    26    66    42    26
## 8     2 2021    51    48    29    34
## 9     3 2021    71    31    30    56
## 10    1 2022    45    11    39    81
## 11    2 2022    65    26    82    48
## 12    3 2022    22    69    48    38
```

```
revqtr <- gather(revqtr, Interval, Revenue, Qtr.1:Qtr.4)
separate(revqtr, Interval, c("Interval Type", "Interval ID"), convert = TRUE)
```



##	Group	Year	Interval	Type	Interval	ID	Revenue
## 1	1	2019		Qtr		1	27
## 2	2	2019		Qtr		1	42
## 3	3	2019		Qtr		1	26
## 4	1	2020		Qtr		1	54
## 5	2	2020		Qtr		1	17
## 6	3	2020		Qtr		1	39
## 7	1	2021		Qtr		1	26
## 8	2	2021		Qtr		1	51
## 9	3	2021		Qtr		1	71
## 10	1	2022		Qtr		1	45
## 11	2	2022		Qtr		1	65
## 12	3	2022		Qtr		1	22
## 13	1	2019		Qtr		2	90
## 14	2	2019		Qtr		2	27
## 15	3	2019		Qtr		2	51
## 16	1	2020		Qtr		2	70
## 17	2	2020		Qtr		2	20
## 18	3	2020		Qtr		2	91
## 19	1	2021		Qtr		2	66
## 20	2	2021		Qtr		2	48
## 21	3	2021		Qtr		2	31
## 22	1	2022		Qtr		2	11
## 23	2	2022		Qtr		2	26
## 24	3	2022		Qtr		2	69
## 25	1	2019		Qtr		3	12
## 26	2	2019		Qtr		3	62
## 27	3	2019		Qtr		3	58
## 28	1	2020		Qtr		3	60
## 29	2	2020		Qtr		3	45
## 30	3	2020		Qtr		3	78
## 31	1	2021		Qtr		3	42
## 32	2	2021		Qtr		3	29
## 33	3	2021		Qtr		3	30
## 34	1	2022		Qtr		3	39
## 35	2	2022		Qtr		3	82
## 36	3	2022		Qtr		3	48
## 37	1	2019		Qtr		4	84
## 38	2	2019		Qtr		4	19
## 39	3	2019		Qtr		4	8
## 40	1	2020		Qtr		4	39
## 41	2	2020		Qtr		4	99
## 42	3	2020		Qtr		4	38
## 43	1	2021		Qtr		4	26
## 44	2	2021		Qtr		4	34
## 45	3	2021		Qtr		4	56
## 46	1	2022		Qtr		4	81
## 47	2	2022		Qtr		4	48
## 48	3	2022		Qtr		4	38

The new dataset has 48 rows.