PUBG Exploratory Data Analysis (EDA)

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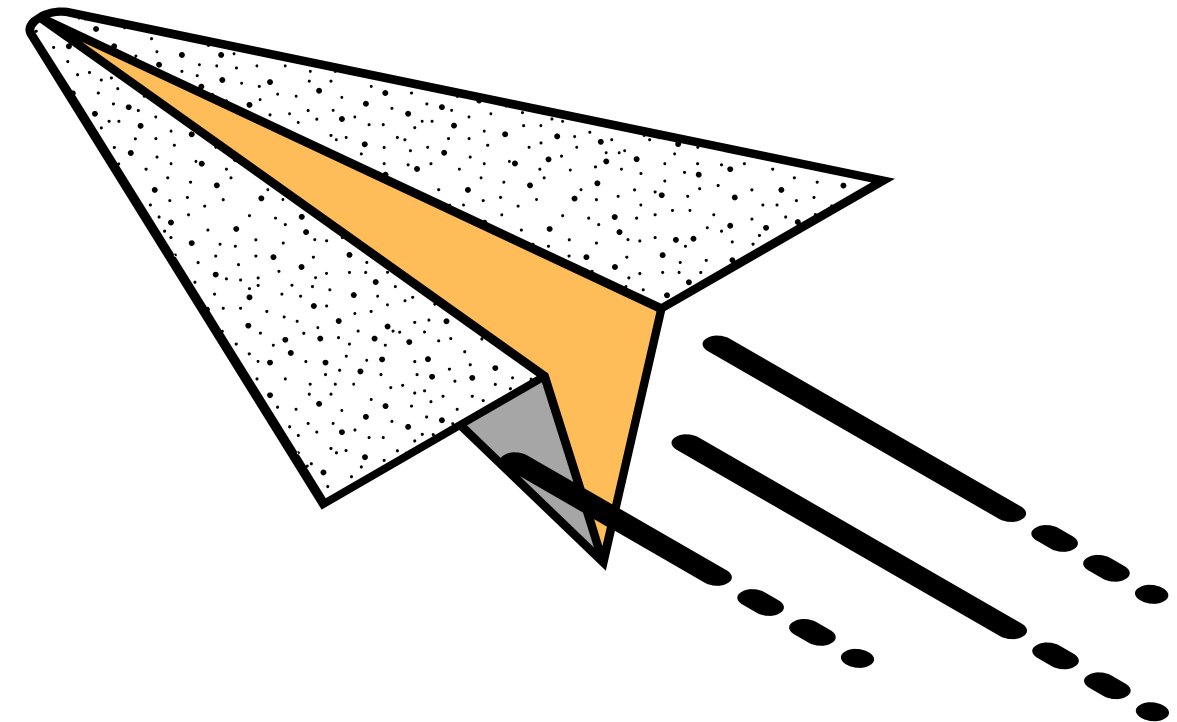
Data description

Libraries

Data Pre-Processing

Question/need

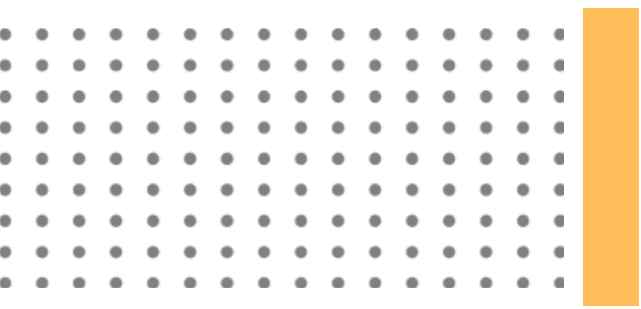Conclusions

PUBG is a game in which 100 players are dropped on an empty island and must explore, hunt, and eliminate other players to only one player remains until the play area ends.

This project is to find out the best strategy to win in PUBG and infer the probability of the team cheating in the game
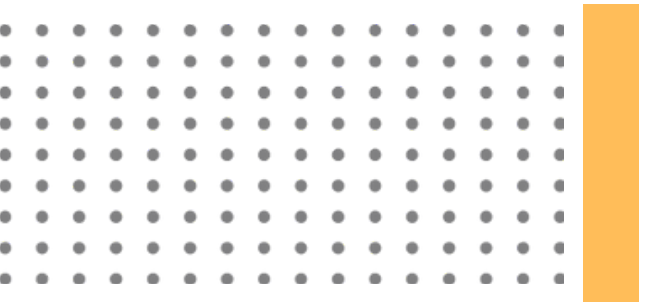
Data Description

The dataset contains 4446966 rows and 29 columns

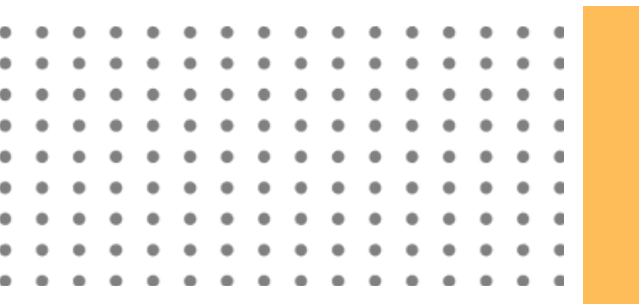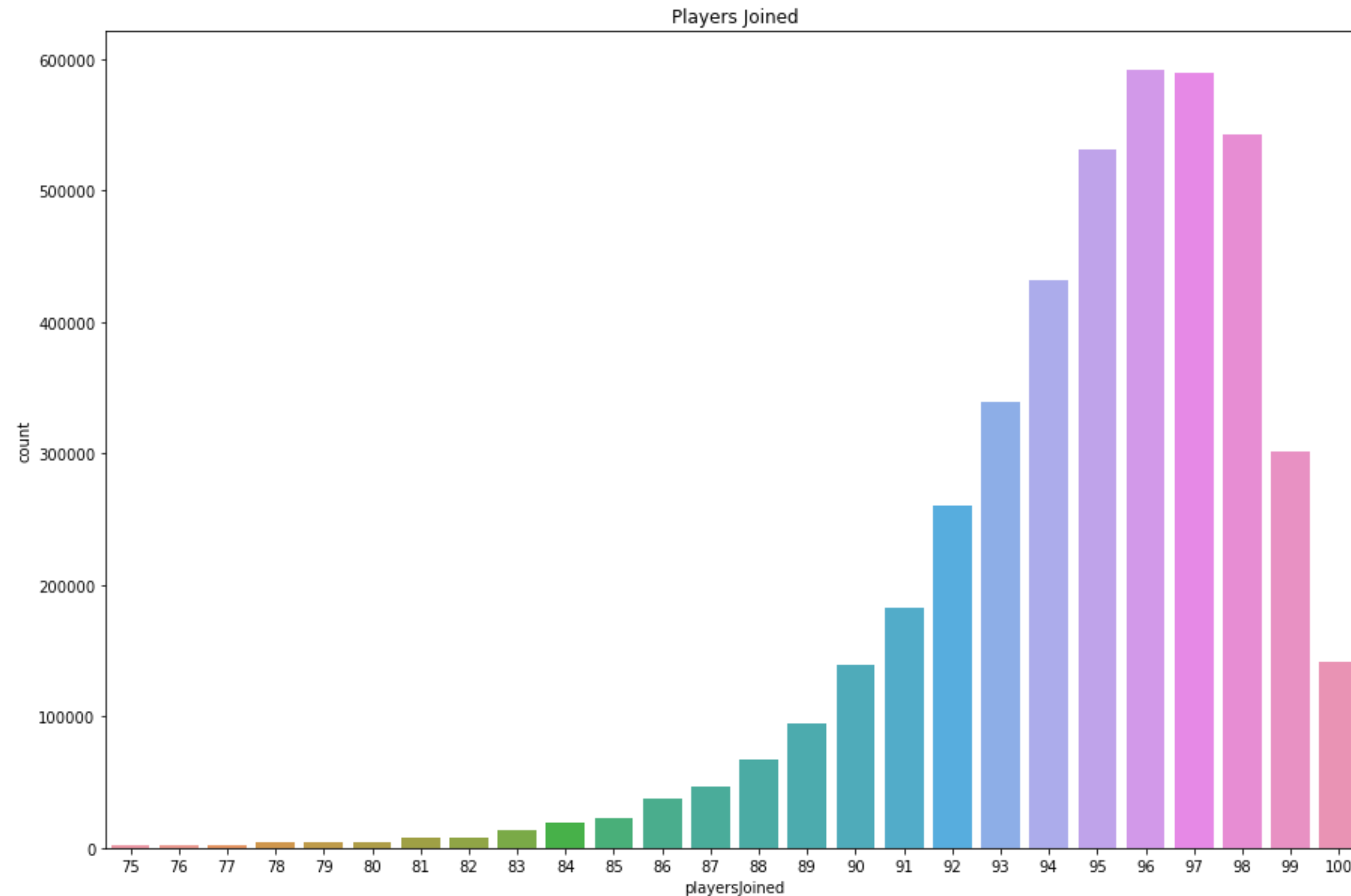| Id	groupId	matchId	matchType	headshotKills	kills	playersJoined	rideDistance	swimDistance	walkDistance
7f96b2f878858a	4d4b580de459be	a10357fd1a4a91	squad-fpp	0	0	96	0.0000	0.00	244.80
eef90569b9d03c	684d5656442f9e	aeb375fc57110c	squad-fpp	0	0	91	0.0045	11.04	1434.00
1eaf90ac73de72	6a4a42c3245a74	110163d8bb94ae	duo	0	0	98	0.0000	0.00	161.80
4616d365dd2853	a930a9c79cd721	f1f1f4ef412d7e	squad-fpp	0	0	91	0.0000	0.00	202.70
315c96c26c9aac	de04010b3458dd	6dc8ff871e21e6	solo-fpp	0	1	97	0.0000	0.00	49.75

libraries

seaborn

matplotlib

plotly

NumPy

Data Pre-Processing

- Chech if there are any missing values

- Check if there any duplicate values

- Show the unique values

- Columns format
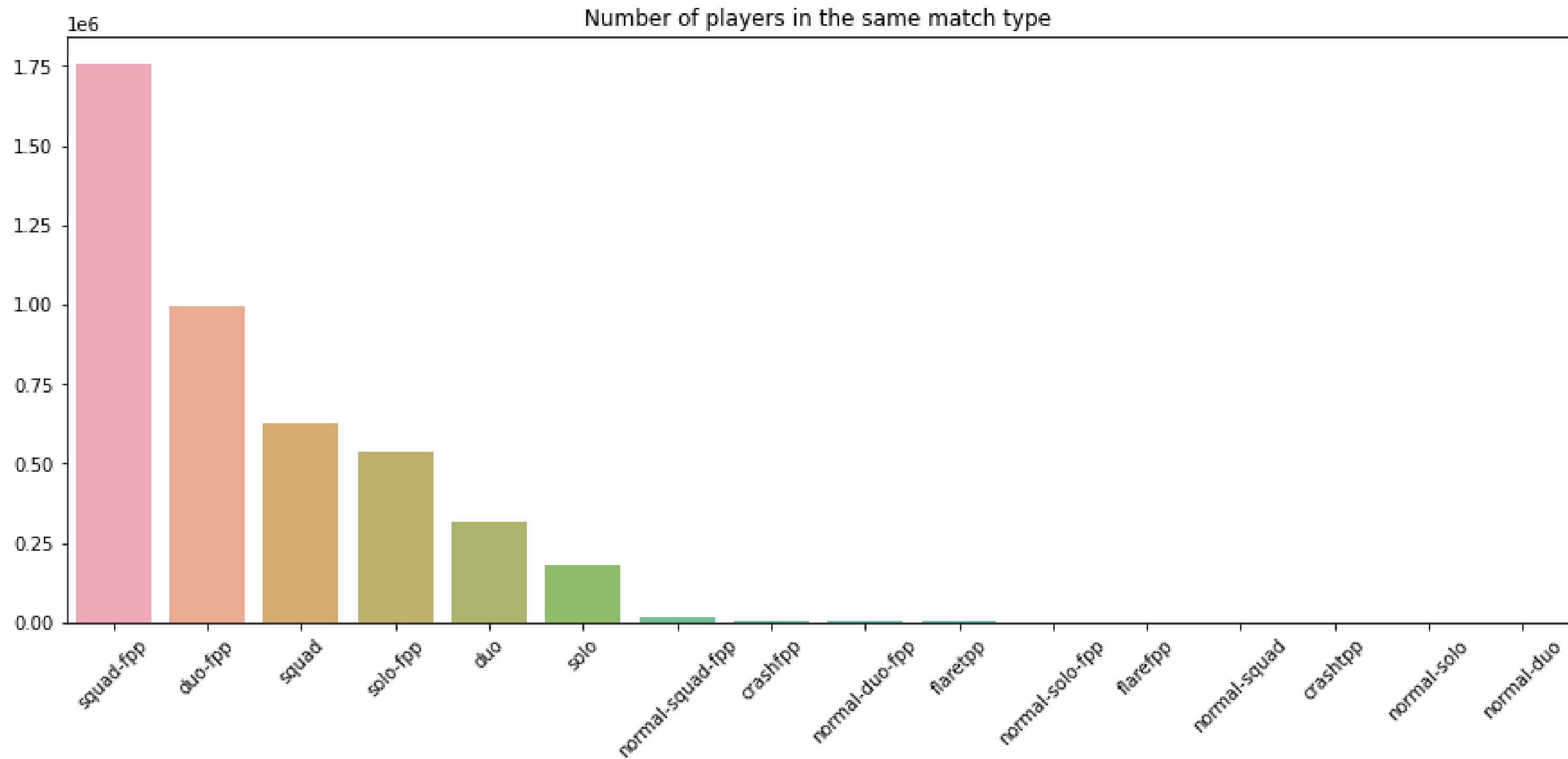
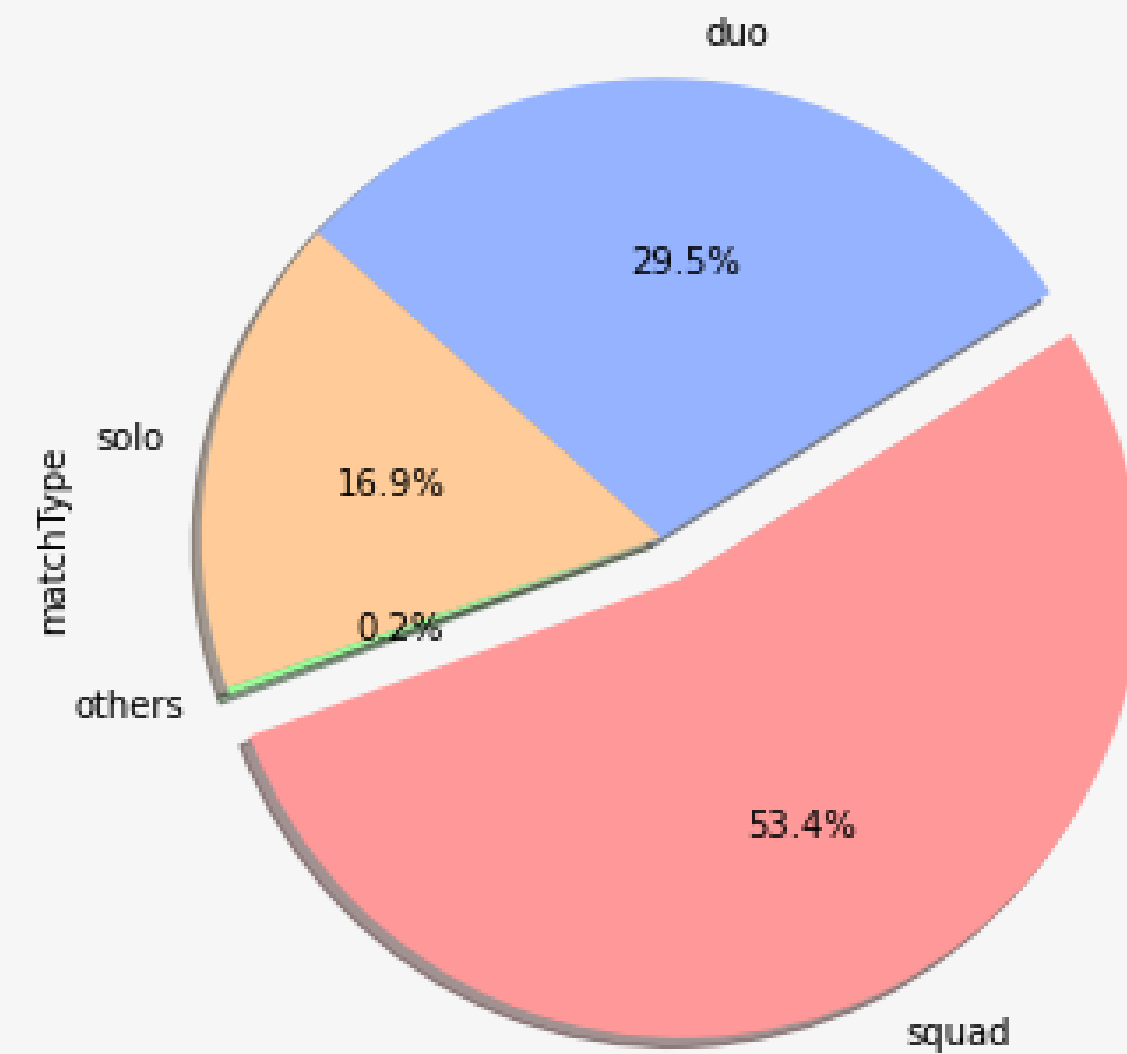- How many players are joinded in one match?

playersJoined
96
91
98
91
97

Players Joined

- Who is the highest win (Solos, Duos or Squads)?

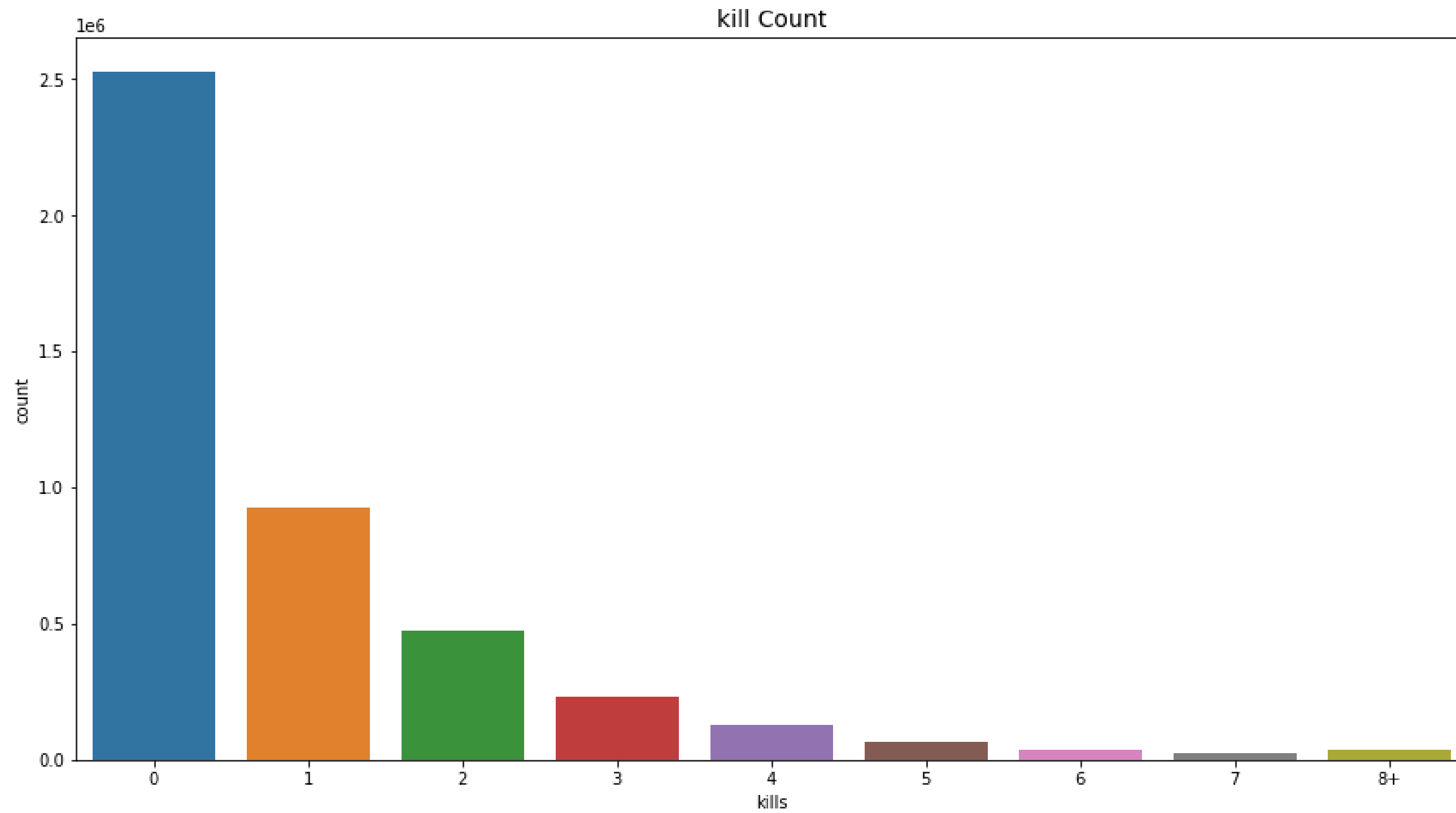Number of players in the same match type

- Who is the highest win (Solos, Duos or Squads)?

we can say that more than 50% of players play as a (squad)

- What is the average person that kills many players?

- How do we catch the fraudsters in the game?

We have two ways:

1-Killing without Moving

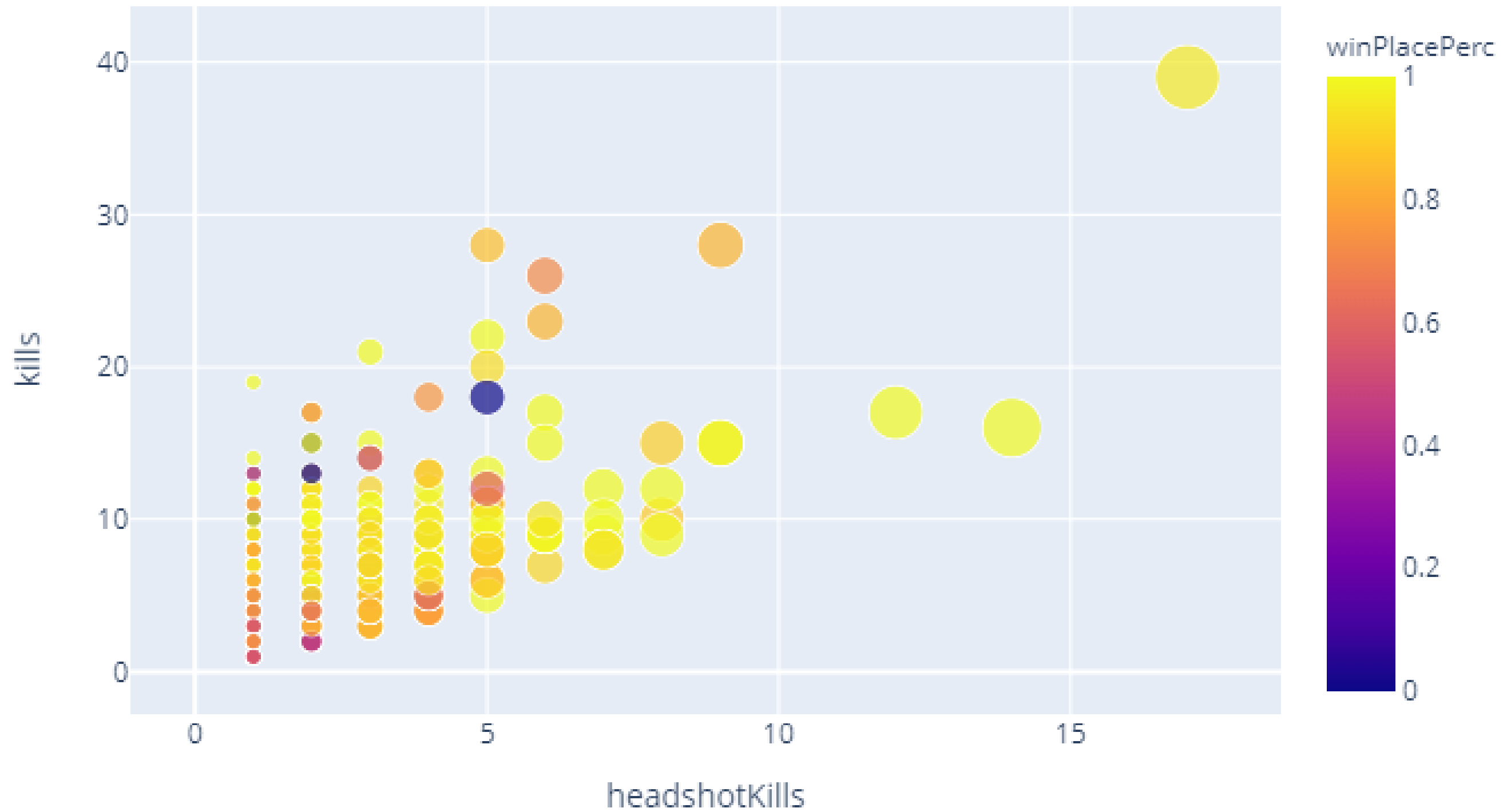Identify the fraudsters who can make kills without even moving

2- Count how many players have killed more than 20 players

totalDistance= [rideDistance] + [walkDistance] +[swimDistance]

- How do we catch the fraudsters in the game?

Id	kills	playersJoined	_totalDistance	_killsWithoutMoving
550398a8f33db7	20	21	0.0	True
b950836d0427da	12	48	0.0	True
5cf4f90e24e26f	13	58	0.0	True
4cf42a5d238351	18	30	0.0	True
b1a89f5bfa80d1	13	47	0.0	True
8f02d08857012d	25	16	0.0	True
f156862af94749	21	24	0.0	True

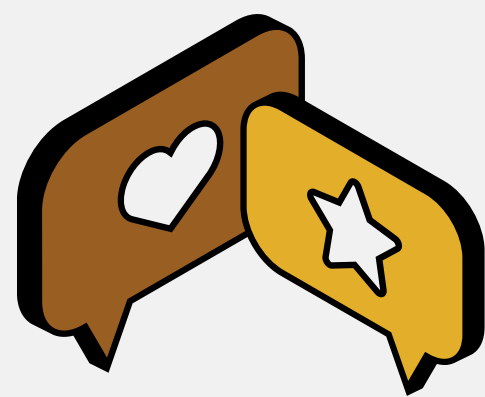- The relationship between kills and headshots Kills?

Conclusions

After analyzing and understanding the data, the following conclusion emerged:

Between 96 to 97 players join in each match.
The higher your chance of winning and finding help for other chances,
The average number of kills is 4,
We also found a way to detect cheaters in the game.

THANK YOU