EDS assignment 5

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o import matplotlib.pyplot as plt
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                # Problem 2: Pie chart of the distribution of winning margins
margin_counts = {m: margin.count(m) for m in set(margin)}
                  plt.figure(figsize=(10, 6))
plt.pie(margin_counts.values(), labels=margin_counts.keys(), autopct='%1.1f%%')
plt.title("Distribution of Winning Margins")
plt.show()
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                 # Problem 3: Line plot of winning team over the years
winning_teams = [team1(i] if winner(i] == team1[i] else team2[i] for i in range(len(years))]
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                 # Problem 3: Line plot of winning team over the years
winning_teams = [team1[i] if winner[i] == team1[i] else team2[i] for i in range(len(years))]
                  plt.plot(years, winning_teams, marker='o')
plt.title("Winning Team Over the Years")
plt.xlabel("Year")
                  plt.ylabel("Winning Team")
                  plt.ylabel( winning Tea
plt.xticks(rotation=45)
plt.show()
                  # Problem 4: Count of matches played in each host country
host_counts = {host: hosts.count(host) for host in set(hosts)}
                  plt.figure(figsize=(10, 6))
                 plt.lagure(rigsize=(10, 6))
plt.lag(host_counts.keys(), host_counts.values())
plt.title("Matches Played in Each Host Country")
plt.xlabel("Country")
plt.ylabel("Number of Matches")
plt.xticks(rotation=45)
plt.show()
                  # Problem 5: Box plot of winning margins by country winning_margins_by_country = {team: [int(m.split()[0]) for m, w in zip(margin, winner) if w == team] for team in set(winner)}
                 plt.figure(figsize=(10, 6))
sns.boxplot(data=list(winning_margins_by_country.values()))
plt.title("Winning Margins by Country")
plt.xlabel("Country")
plt.ylabel("Winning Margin (runs)")
plt.ticks(range(len(set(winner))), set(winner))
slt.bek(")
                  plt.show()
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                  # Problem 6: Bar chart of total wins by country
total_wins_by_country = {team: winner.count(team) for team in set(winner)}
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