Challenges

1) Join both datasets such that each event is associated with the correct coordinates of the corresponding player at the given time. The units for time, x, and y can be chosen as you like.
   The output table should look like this:

event_id	half_time	time	player_id	team_id	event	x	y
0	1	0	358112	1935290	Kick Off	5267	3374
…	…	…	…	…	…	…	…

2) Calculate the length of the ball trajectory from the initial kickoff to the first "Ball Out of Play" event. The unit should be in meters.

3) Add a new column to the first table that flags for each pass and cross event if the pass was successful or misplaced.

4) Which player had the most passes, which had the best pass completion rate in percent?