

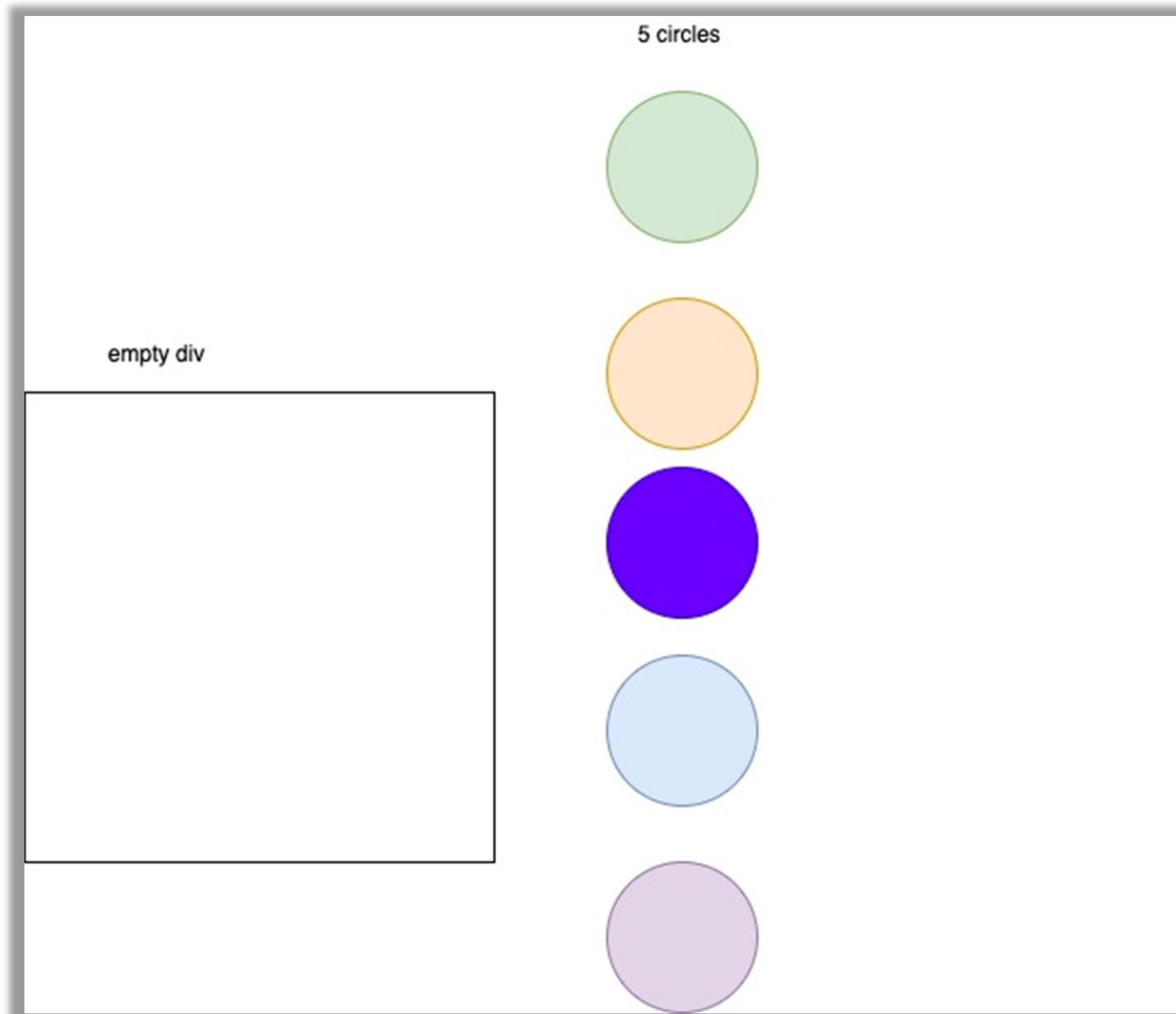
Following is the step by step description of the problem statement :

Step 1 – Display following UI components.

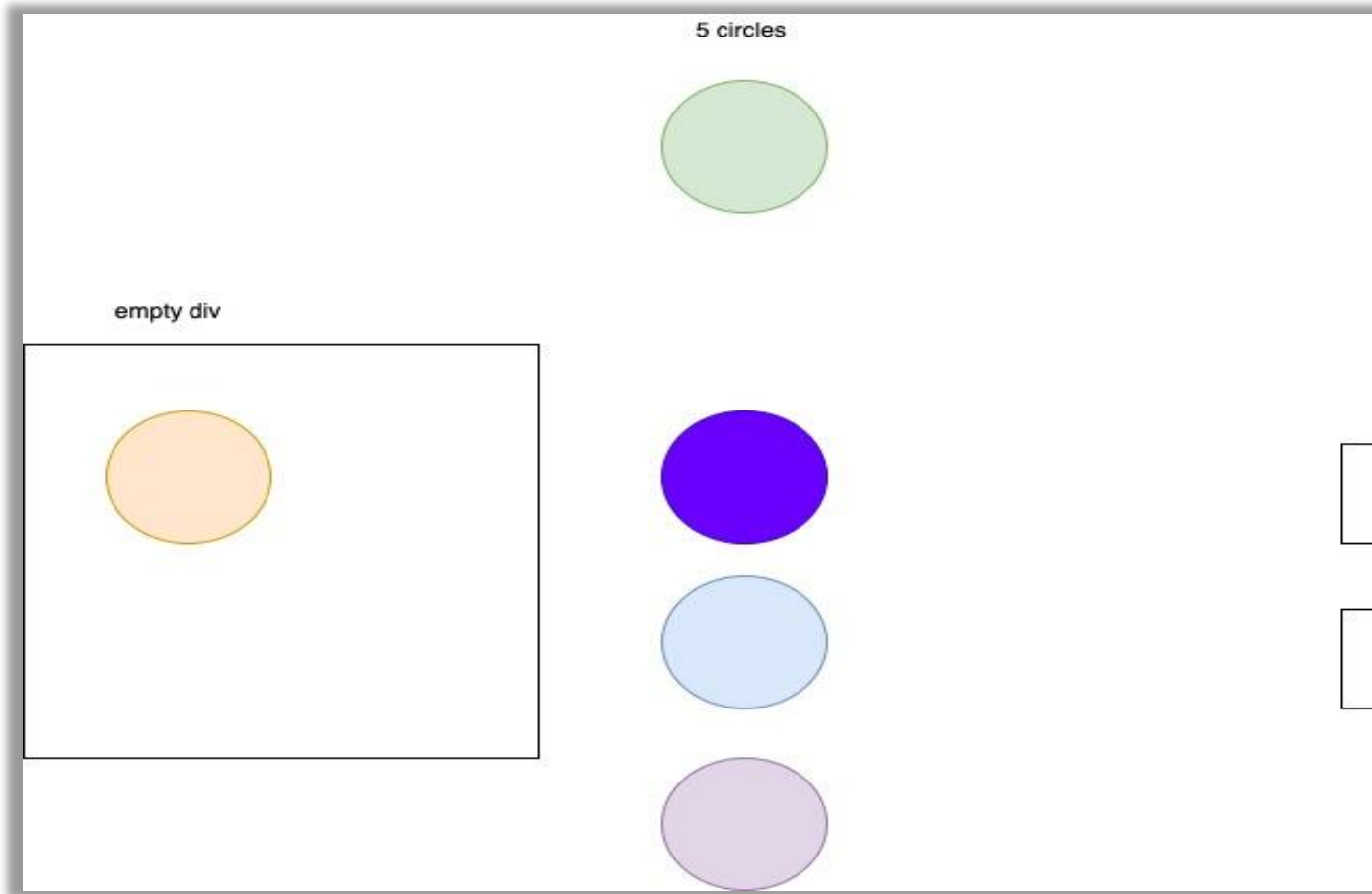
(A) – an empty div.

(B) – 5 circles each of unique colours. The colour generation method should randomly pick and assign one of the five colours to the circles. However, a colour cannot be duplicated.

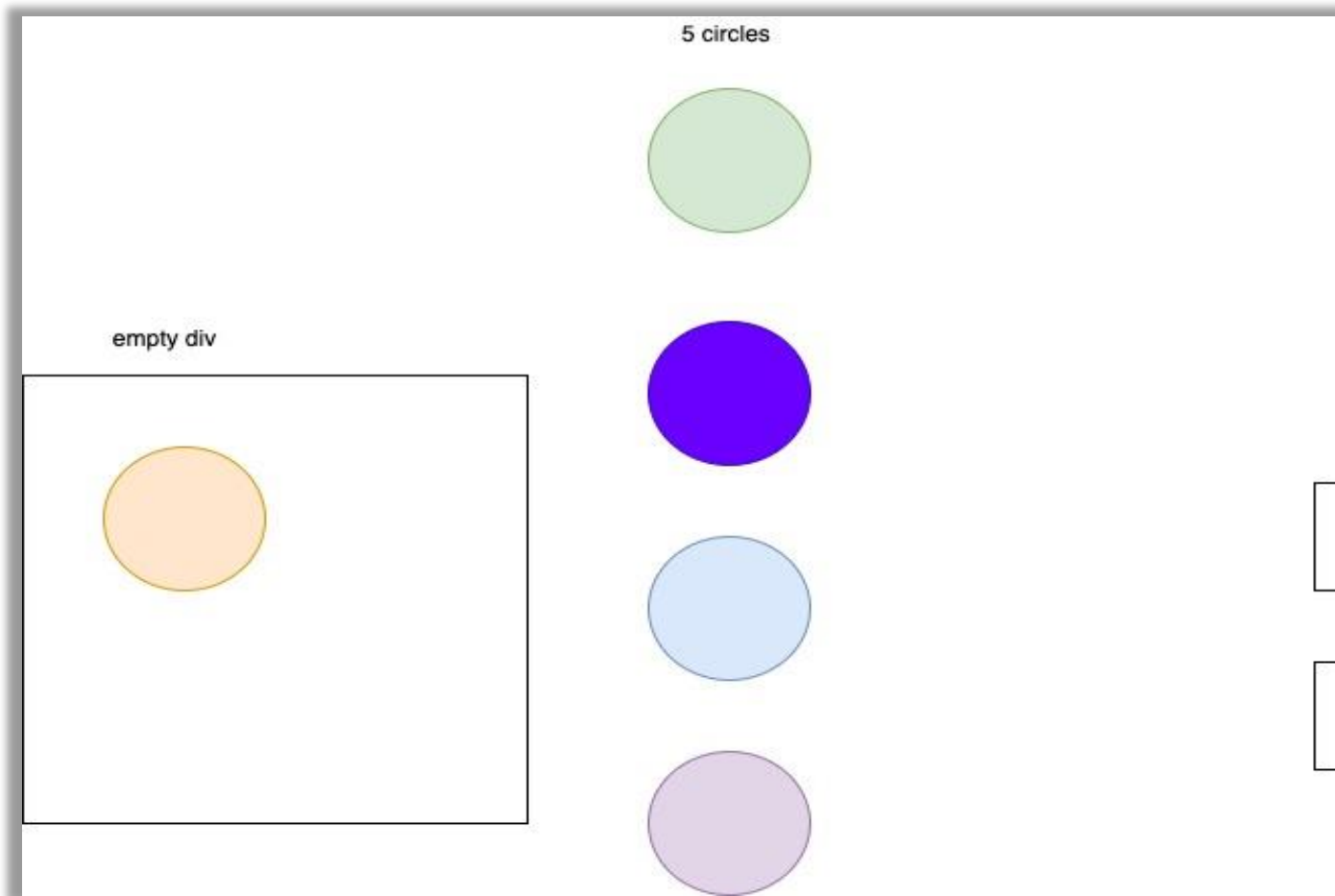
© - A text box that will take numeric input and a button named “shoot”



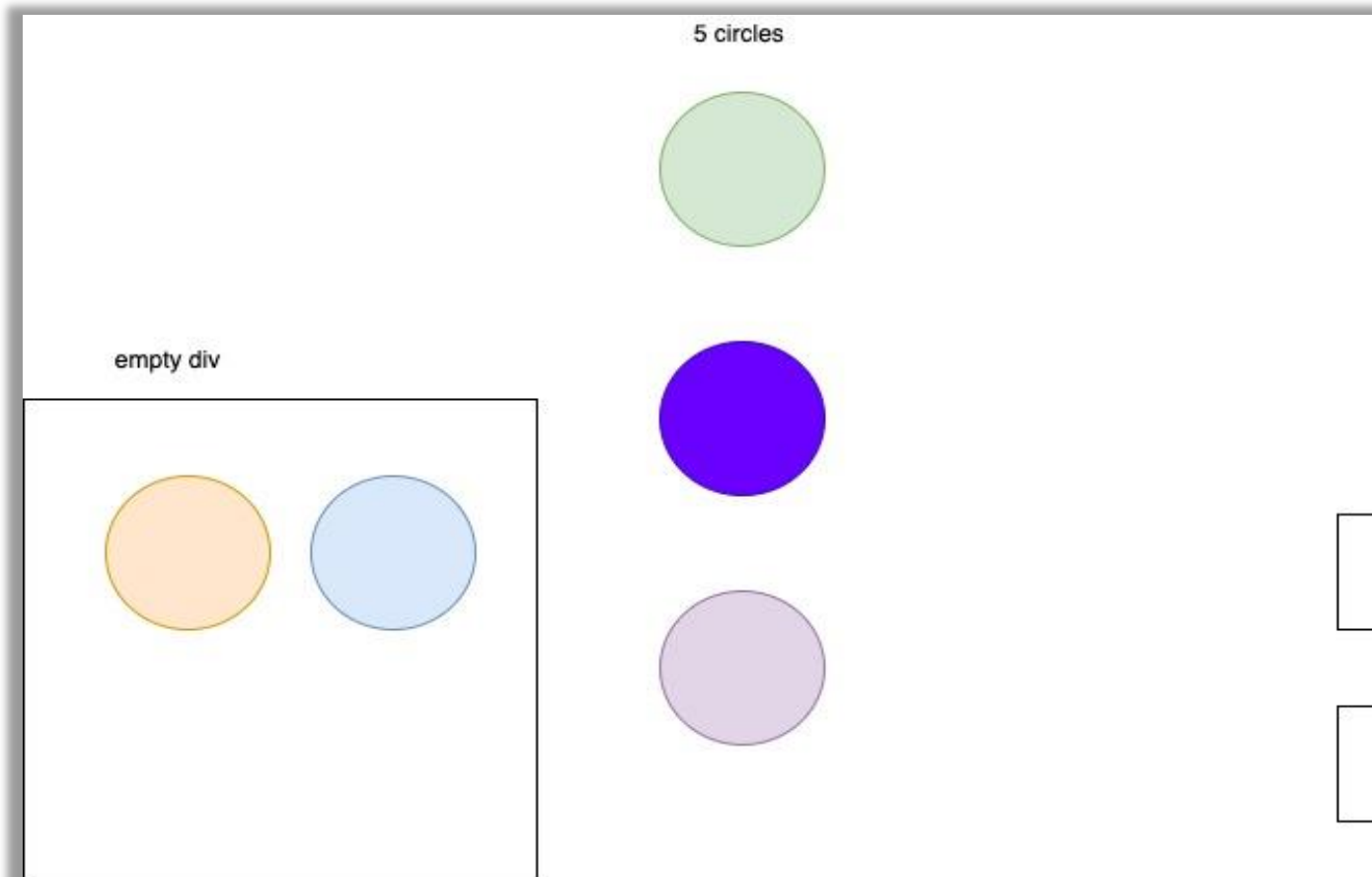
Step 2 – A user can enter a number in the text box and click shoot button. This would move the corresponding circle into the empty div. In the figure below, user entered 2 and clicked shoot button, which moved the 2<sup>nd</sup> circle into the empty div.



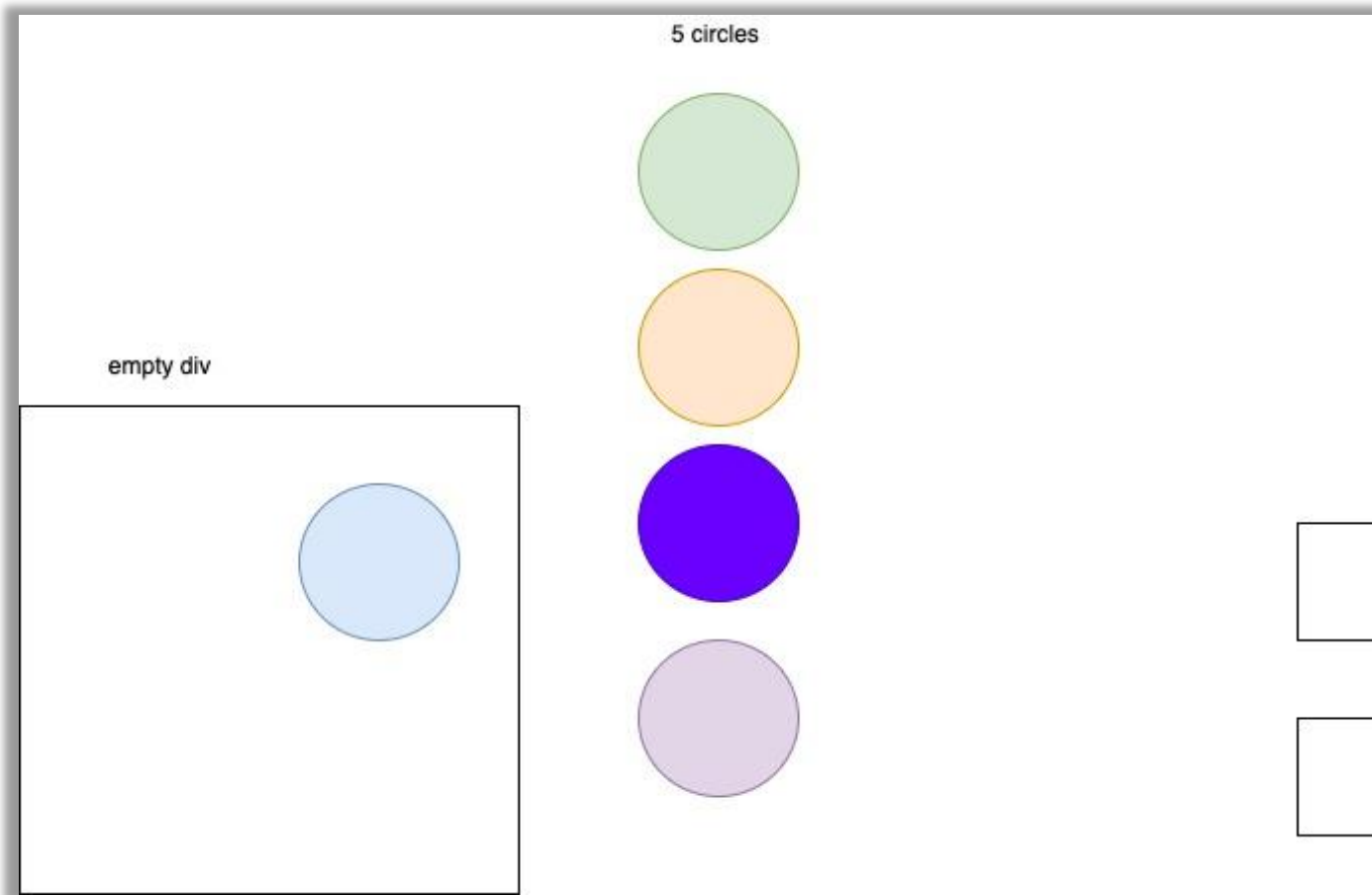
Step 3 – The circles get reorganised. Therefore the purple circle which was at 3<sup>rd</sup> position now moves up and occupies 2<sup>nd</sup> position.



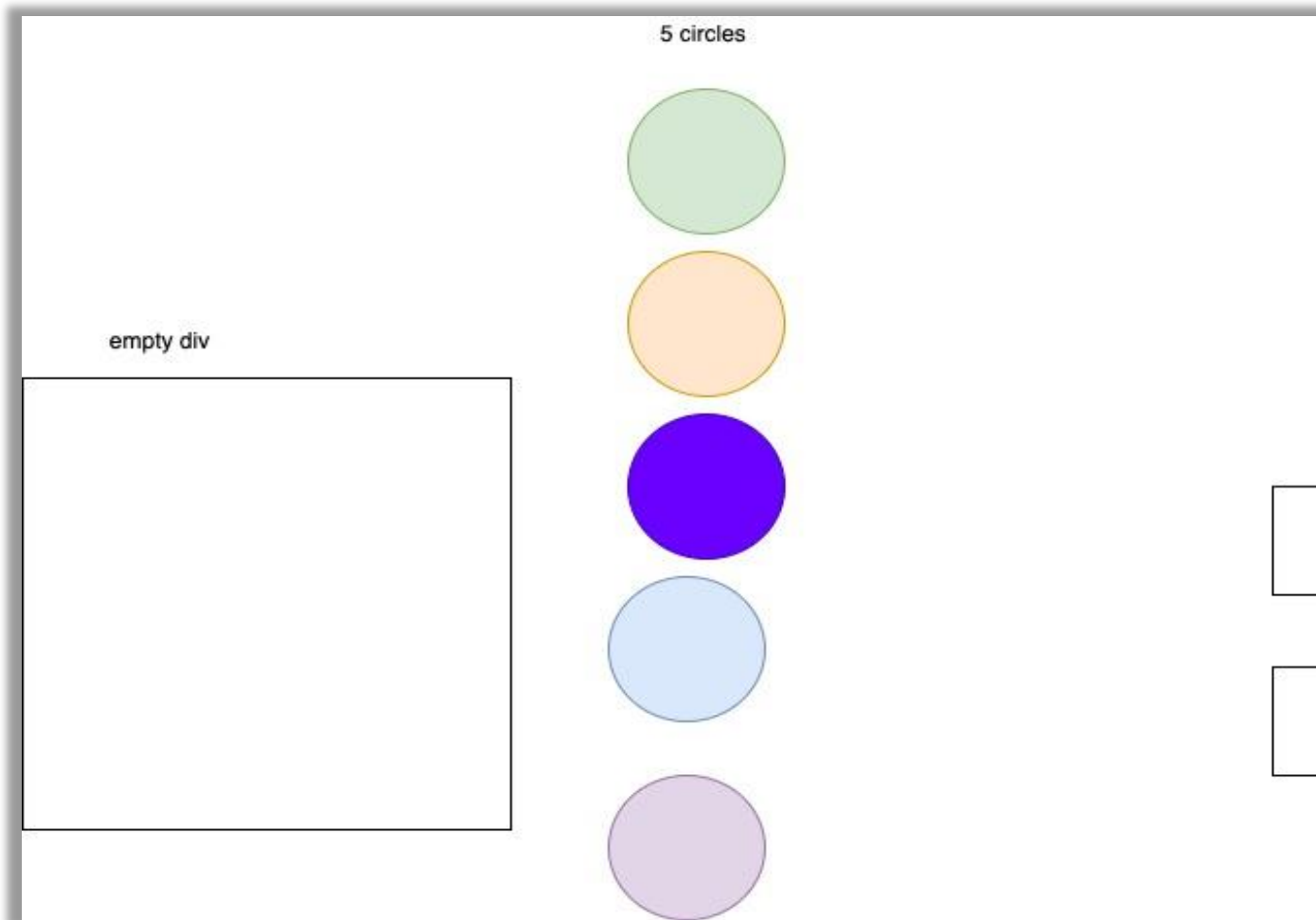
Step 4 - The user can shoot multiple circles and the corresponding circles would move in to the empty div. In the below figure, the user again entered 3 and corresponding circle got moved into the empty div.



Step 5 – The user can get back the circles that were shot by clicking the corresponding circles residing in the empty div. Example the user clicked yellow circle which was inside the empty div and the yellow came back to its **original position (that is second position)**. Please **note that this is important consideration in the problem.**



Step 6 – Continuing with step 5, clicking the blue circle restores it's original position that is 4<sup>th</sup>.



Kindly make suitable assumptions as needed. Expectations is a clean maintainable code in ReactJS 16+ version.

Test Driven Development Approach will fetch bonus points.