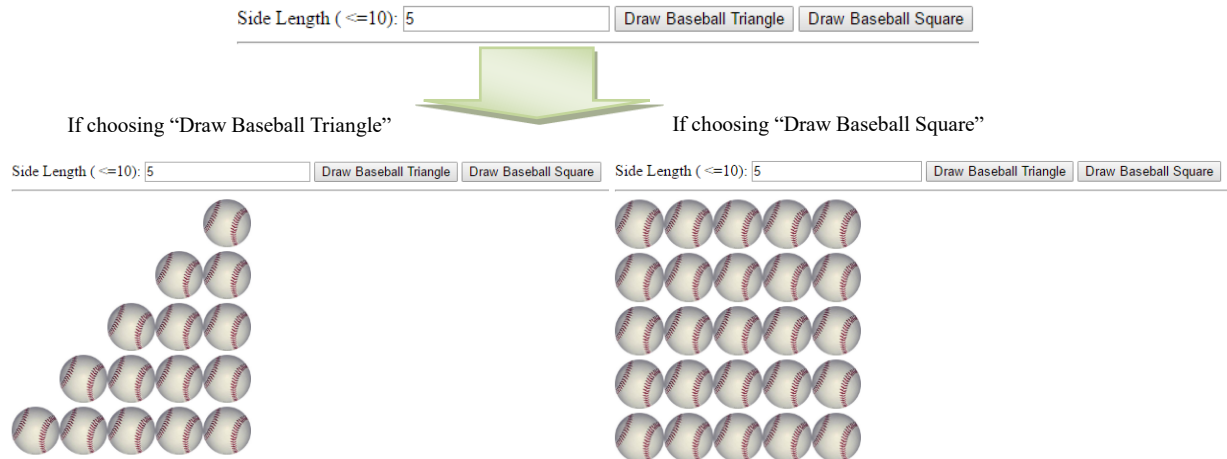
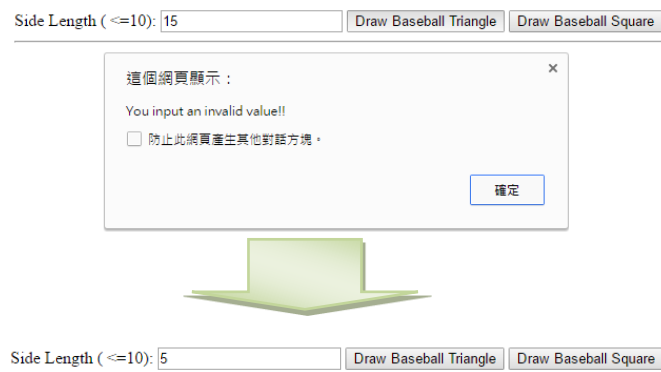


# Exercise 5

1. Develop a JavaScript program that displays the images of baseball based on the user's input. The user can input the side length and choose to draw a triangle or to draw a square. The expected user interfaces are as follows: (The image file is *baseball.jpg*. Should re-size the image to 50x50px)



Besides, if the user inputs an invalid value ( $< 0$  or  $> 10$ ), this program will show a popup dialog, and set the input value as the default value 5.

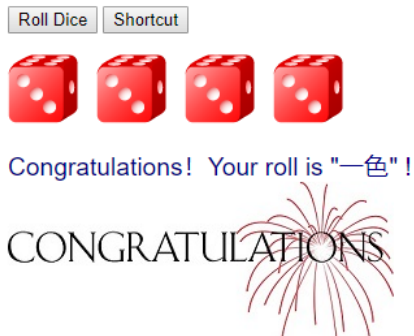


## Hint:

- The images are suggested to be shown in a *div* element.
- Suggest to use "*blank.png*" to leave spaces to build correct triangles.

2. Revise Fig. 9.5 in our text book to show additional message and image describing the following conditions:

- Detect "一色": four dice have the same face values



- Detect "無面": the face values of four dice are totally different



- Detect "No decision": other conditions



- Add a new button "Shortcut" to directly produce the result of "一色".



Other requirements:

- The message is in navy color and 120% size.
- Set "font-family" to *Helvetica*, *MicrosoftYaHei*, *LiHei Pro*, *TW-Kai*

**Hint:**

- Please carefully study Fig. 9.5 and make use of variables: *die1Value*, *die2Value*, *die3Value*, and *die4Value*.
- Array is not required. (But using array is acceptable)

**Rules of this game:** <https://zh.wikipedia.org/wiki/十八仔>

**Bonus (+2):**

- Compute the score based on the game rules:

Roll Dice Shortcut



Your score is 5 !

- Detect "十八":

Roll Dice Shortcut



Congratulations! Your roll is "十八" !

CONGRATULATIONS



Your score is 12 !

- Add a new button "Shortcut2" to directly produce a result of "十八".

Roll Dice Shortcut Shortcut2



Congratulations! Your roll is "十八" !

CONGRATULATIONS



Your score is 12 !