Balls and Boxes 2

How many ways are there to put n different balls into m different boxes?

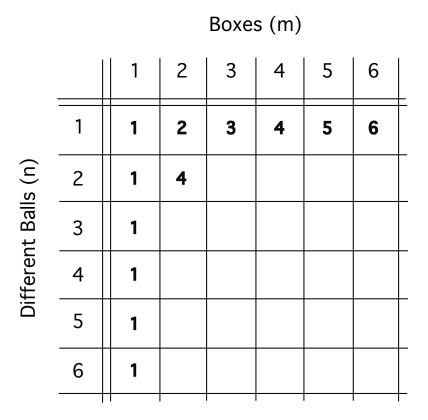


Figure 1:

How many ways are there to put n identical balls into m different boxes?

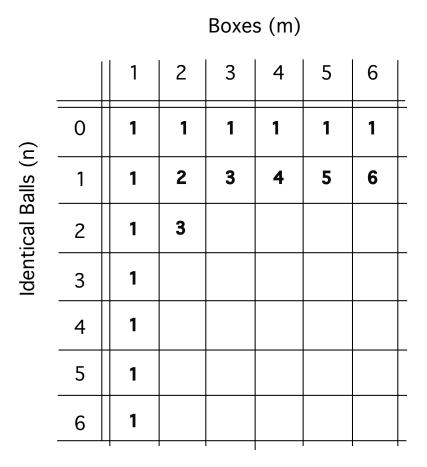


Figure 2: