

Balls and Boxes 2

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

		Boxes (m)					
		1	2	3	4	5	6
Different Balls (n)	1	1	2	3	4	5	6
	2	1	4				
	3	1					
	4	1					
	5	1					
	6	1					

Figure 1:

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

		Boxes (m)					
		1	2	3	4	5	6
Identical Balls (n)	0	1	1	1	1	1	1
	1	1	2	3	4	5	6
	2	1	3				
	3	1					
	4	1					
	5	1					
	6	1					

Figure 2: