



Exercise 1

Below is a table of historic results of basketball games. 1 represents a win, and -1 represents a loss for the team labeled in that row.

	Houston Rockets	Dallas Mavericks	Boston Celtics	Toronto Raptors	Denver Nuggets	Houston Rockets	Dallas Mavericks	Boston Celtics	Toronto Raptors	Denver Nuggets	Houston Rockets	Dallas Mavericks	Boston Celtics	Toronto Raptors	Denver Nuggets	Houston Rockets	Dallas Mavericks	Boston Celtics	Toronto Raptors	Denver Nuggets
Houston Rockets	X	1	1	-1	1	X	-1	-1	1	-1	X	-1	-1	-1	-1	X	1	-1	-1	1
Dallas Mavericks		X	1	1	-1		X	1	-1	1		X	1	-1	1		X	-1	-1	1
Boston Celtics			X	1	-1			X	-1	1			X	-1	1			X	-1	1
Toronto Raptors				X	1				X	-1				X	-1				X	-1
Denver Nuggets					X					X					X					X

Tomorrow there is a game between the Denver Nuggets and the Dallas Mavericks. What is the probability that Denver will win?



Exercise 2

Below is a table of widths and heights (in pixels) belonging to different figures:

Width	Height
25	24
25	25
25	25
21	24
24	24
30	29
25	25
25	25
27	29
25	29
24	29
24	25
27	25
24	27
24	25
25	24
24	25
25	30
29	29
27	30
27	24
29	25
27	25
25	25
23	29

Using a machine learning algorithm, can you determine if a figure with width 30 and height 22 is considered an anomaly in the above data set?