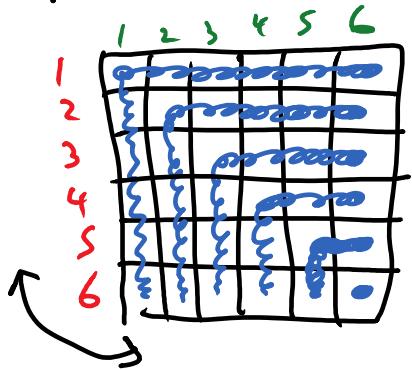


Example of the mass of a random variable.  
Roll 2 dice. Let  $X$  denote the minimum, let  $Y$  denote the maximum.



Mass of  $X$

$$\begin{aligned} p_X(1) &= P(X=1) = \frac{11}{36} \\ p_X(2) &= P(X=2) = \frac{9}{36} \\ p_X(3) &= P(X=3) = \frac{7}{36} \\ p_X(4) &= P(X=4) = \frac{5}{36} \\ p_X(5) &= P(X=5) = \frac{3}{36} \\ p_X(6) &= P(X=6) = \frac{1}{36} \end{aligned}$$

} notice these mass values sum to 1.

Mass of  $Y$  :

	$p_Y(1) = \frac{1}{36}$	$p_Y(4) = \frac{7}{36}$	again the mass values of $Y$ sum to 1 too.
	$p_Y(2) = \frac{2}{36}$	$p_Y(5) = \frac{9}{36}$	
	$p_Y(3) = \frac{5}{36}$	$p_Y(6) = \frac{11}{36}$	