Random Walks Consider the probability wass function (PMF): The where the two outcomes are -1 and +1, while ti are egnally likely. For example, a possible seguence of draws from tens PMF might be d+1+1, -1, +1, -1, -1, -1, -1? Now suppose that these numbers represent steps that a drunkand takes in 10: Concretely, let the position of the drunkard at time; be x; Then the segnance above comospords to the positions: position of drunkand

	We call the seguence of numbers 1x,3, a trajectory".
	We may simulate a trajectory on the computer by making use of the cast that:
	the computer by making use of
	the fact that:
AND THE RESERVE TO THE PARTY OF	$x_i = x_{i-1} + \{-1, +1\}$
	$x_j = x_{j-1} + \{-1, +1\}$
	choose one
Barrier and the second	randomly
-	w equal
	probability.
	All me have to do 3 loop over
	time j.
	We will also want to loop over
V	trajectories, which we will label by
	= 1/.
	Finally, well want to store the
	trajectories so we can analyze them later. Let's use a numpy
2d	away for that:
	wary for or one
	X: 3 S S S S S S S S S
	ا الق
	time