Why is Pascul's 1 containativism. Consider the luttice: Q. How many ways to get flow (0,0) to (1, 1)? or "up" sleps: "inweating pail" Some examples: (0,0) to (0,0): 1 way do by (0,0) to (0,1): 1 way (0,0) to (0,1): 1 way inspection (0,0) to (1,1): 2 ways Ok, what about in general? Notice that to get flow (0,0) to (n,m), we need exceedly it right steps and in up steps. So just need to find the number of manys of combining these. Hommon, a bit difficult of floor. We can note that along the edges of the lattice, i.e., for all n, (n,0) and for all N (o,m), the number of possible paths is only 1. (0,0) to (0,0): 1 (0,0) to (1,0): T (0,0) to (0,1): 1 (0,0) to (1,1): 2 on our lattice, replace The node at the red print with our unresponding gbeen number: • • • • Looks Janiline? Ld's make a recurrence relation: Somewhere inside our lattice: Flow (n-1, m) to (n, m), only one way. Likewise, Mon (n, m-1) to (n, m), only 80, from (0,0) to (n, M), is the sun of the ways flow (0,0) to (n, M-1) So now me are equipped to deal with any general point in So now me all the lathie; 1 3 Hopefuller glving some nature of Pascal's 1.