

How can the computer help?!

We can devise better ways to express states and interactions as we *experience* them

Beyond procedural and declarative perspectives on state in programming ...

... observational, something different in nature





DENOMINATIONS	1	2	5	10	20	50	100	200	
389	TRUE	coins							
pennies	1	1	1	1	1	1	1	1	
	1	2	5	10	20	50	100	200	200
189	TRUE	FALSE							
	1	1	1	1	1	1	1	0	
	1	2	5	10	20	50	100	0	100
89	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	
	1	1	1	1	1	1	0	0	
	1	2	5	10	20	50	0	0	50
39	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	
	1	1	1	1	1	0	0	0	
	1	2	5	10	20	0	0	0	20
19	TRUE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	
	1	1	1	1	0	0	0	0	
	1	2	5	10	0	0	0	0	10
9	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	
	1	1	1	0	0	0	0	0	
	1	2	5	0	0	0	0	0	5
4	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	
	1	1	0	0	0	0	0	0	
	1	2	0	0	0	0	0	0	2
2	TRUE	FALSE							
	1	0	0	0	0	0	0	0	
	1	0	0	0	0	0	0	0	2
0	FALSE								





Observation in giving change ...

amount = 8; coinlist = []; denoms is [1,2,5,10,20,50,100,200]; amountleft is amount - sum(coinlist); gtdenomix is 1 if amountleft>=denoms[_ix] else 0; gtnumlist is gtdenomix with _ix is 1..denoms#; maxdenom is denoms[sum(gtnumlist)];

Agency in giving change

## initialisation	## action				
{ amount = 195; coinlist = []; }	click is mousePressed; when (amountleft>0 && click) { wait 100; coinlist = coinlist // [maxdenom]; }				



