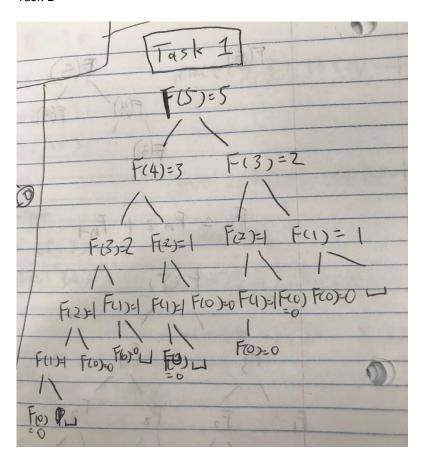
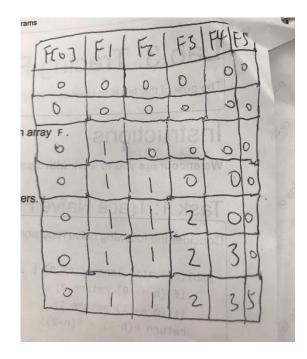
/**************************************	***
*** You and your partner's name, if any.	***
************************	***/
Li Xi	
Matthew Pestona	
/**************************************	***
*** Do you attest that this work is your own, in accordance with the	***
*** statement on academic integrity in the syllabus?	***
************************	***/
Yes or no?	
Yes.	
/**************************************	***
*** List any other comments here.	***
*************************	***/

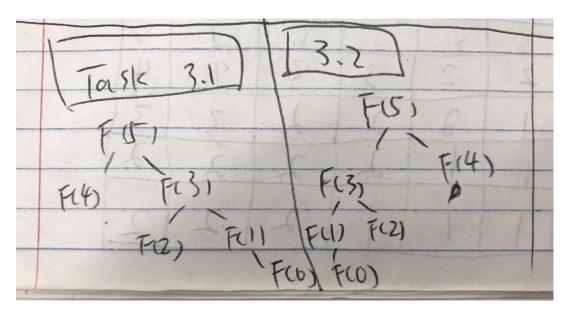
Task 1



Task 2



Task 3



Task 4.1

			j								
			0	1	2	3	4	5	6	7	8
i	1	d1	0	1	2	3	4	5	6	7	8
	2	d4	0	1	1	3	1	2	3	4	2
	3	d5	0	1	1	2	1	1	2	2	2

Task 4.2

The problem identified: if continuing using the base case i = 1, then I will get j/d1 = 0.5 when j = 1 and d1 = 2. To avoid fractions, I changed the base cases to:

$$j/d1$$
 if $i = 1 & d1 = 1$
 j if $i = 2 & d1 = 2$

			j								
			0	1	2	3	4	5	6	7	8
i	1	d2	0	1	2	3	4	5	6	7	8
	2	d4	0	1	1	3	1	2	3	4	2
	3	d5	0	1	1	2	1	1	2	2	2

Task 5

g(0) = 0; f(0) = 0;

g(2) = g(1) + f(2) = 2 * g(1) + f(1) = 2 * (g(0) + f(1)) + f(1) = 2 * (g(0) + f(0) + g(0)) + f(0) + g(0) = 0;

