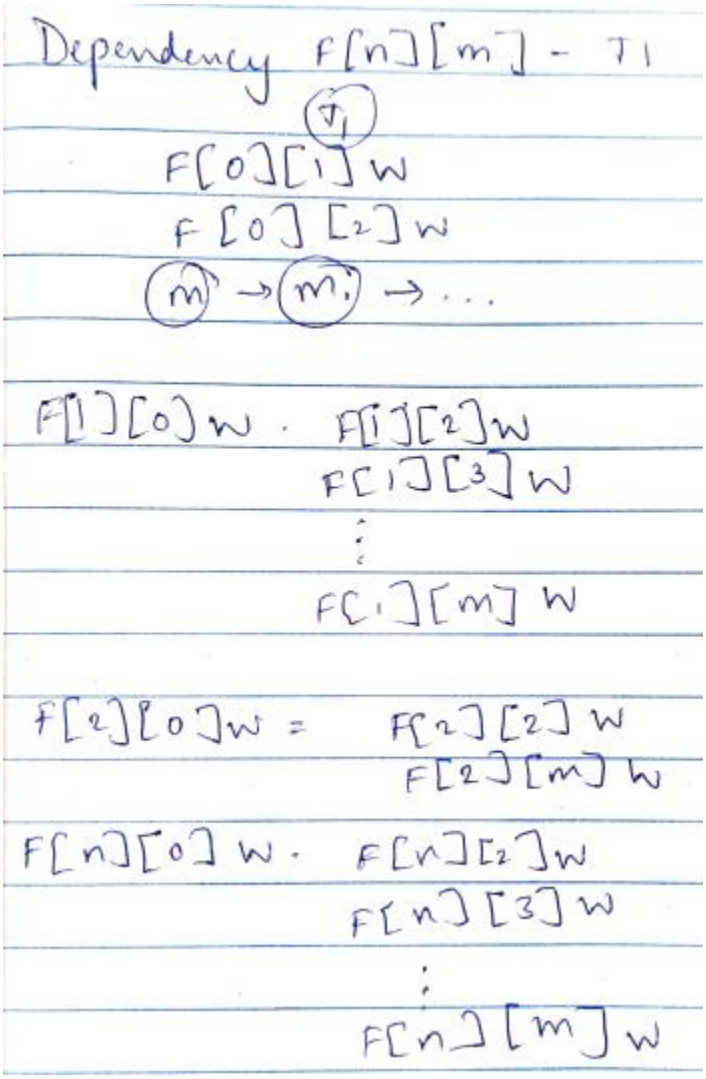
Coin Problem :

The complexity of this function is 0(n*m)



What is the width?
width would be m.

Question:What is the work?
Answer:- 0(n*m)

Question:What is the critical path? What is its length?
Answer:- Critical Path is 0(n+m) and the length is the sum of processing time of all the task within the critical path.

2 Knapsack

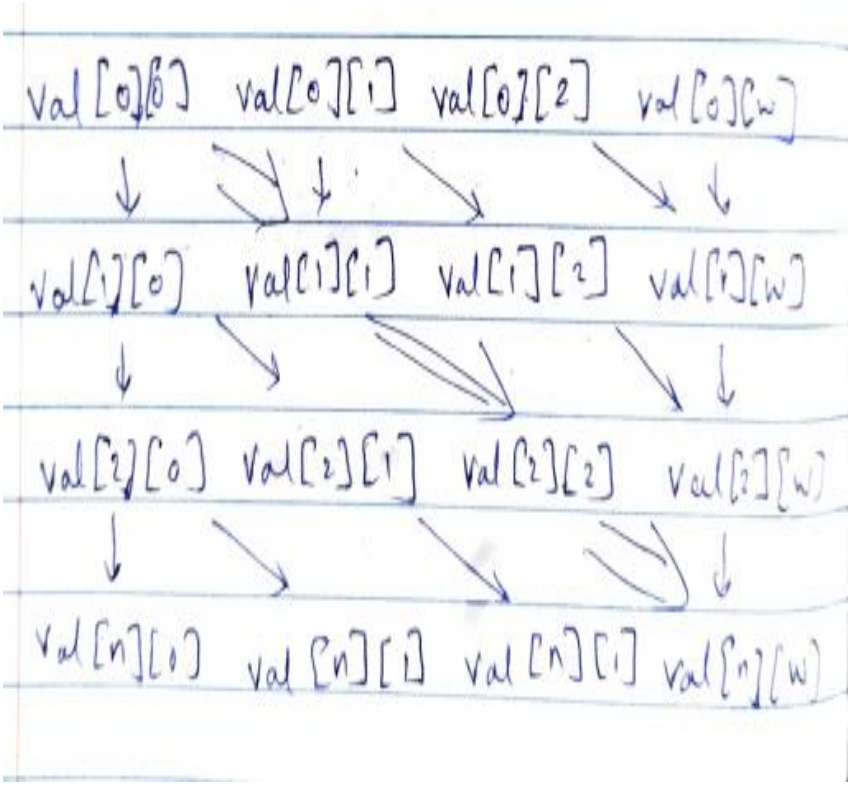
Complexity of algorithm is O(nW)

Question:What is the width?
Answer width is (W+1)

Question:What is the work?
Answer: O(n*W)

Question:What is the critical path? What is its length?
Answer: The critical path would be length of the diagonal as shown in the diagram above(n -- > W)

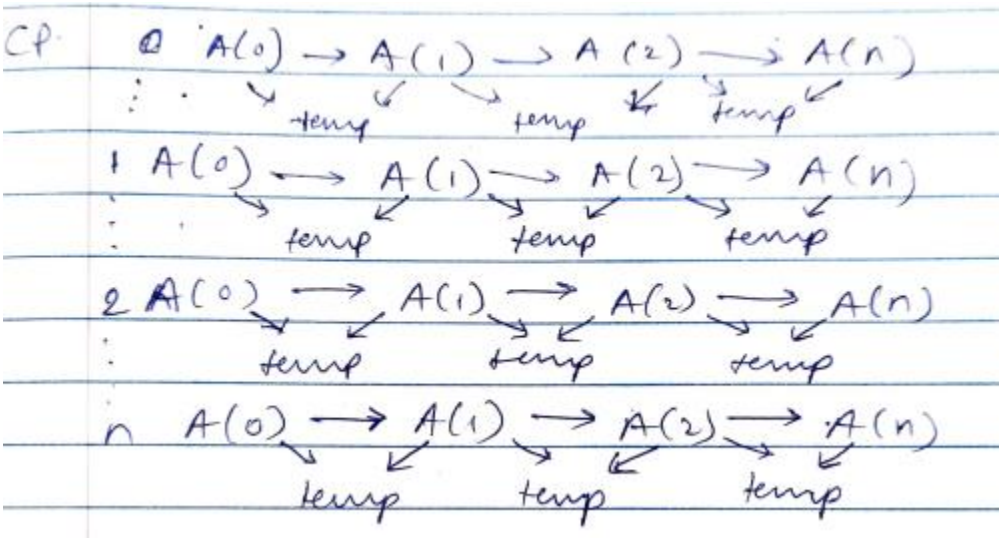
Question:Extract the dependencies.



3 Bubble Sort

The complexity of this function is O(n^2)

Question:Extract the dependencies.
Answer:



Question:What is the width?
Answer: O(N/2).

Question:What is the work?
Answer: Total work is N*(N-1)

Question:What is the critical path? What is its length?
Answer: Critical path is each row (n + ((n-1)*temp))
00 -> temp -> 01 -> temp -> 02 -> - - - - - -> temp -> 0(n-1)