CS 260: Homework 6

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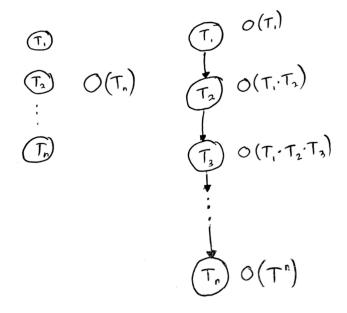
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1 1

$$M = \begin{bmatrix} . & a & b & c & d & e & f \\ a & X & 3 & X & 4 & X & 5 \\ b & X & X & 1 & X & X & 1 \\ c & X & X & X & 2 & X & X \\ d & X & 3 & X & X & X & X \\ e & X & X & X & 3 & X & 2 \\ f & X & X & X & 2 & X & X \end{bmatrix}$$

2 2

The tasks t1, t2, t3...tn can be run in parallel. If not, then the run time is the sum of t1 + t2 + t3 + ... + tn. If run in parallel, then the run time is that of the task with the longest execution time. In parallel, the run time will be O(tn) where tn is the longest execution time out of all of the tasks.



3 3

Strong components: b, f, d, b-c-d

4 4

```
Data: Insert edges
Insert edge between vertex i and j. Function Insert (i,j) if i > norj > n
then
| PRINT Edge is not between i and j
else
| insert i at the end of i insert j at the end of j
end

Data: Delete edges
Delete edge between vertex i and j. Function Delete (i,j) if i > norj > n
then
| PRINT Edge is not between i and j
else
| Delete i at the end of i Delete j at the end of j
end
```

5 1 How to make tables

1	2	3
7	8	9
12	13	14