Shane Riegodedios

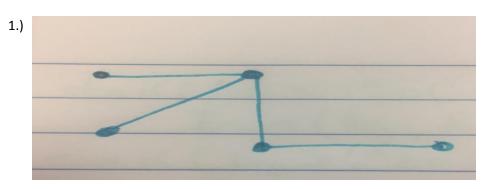
Dr. Antov

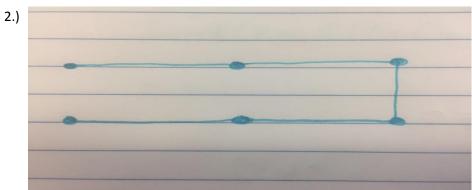
Intro to Algorithm

March 2, 2017

Assignment 5

1)





3.)

- a.) n-1
- b.) n-1
- c.) n-1

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Dr. Antov

Intro to Algorithm

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2)

1.)
$$\sum_{i=1}^{n} (cost(AllFrom) + a_1)$$

 $cost(AllFrom) = \theta(n)$

2.)
$$cost(AllFrom) = \theta(n)$$

$$\sum_{i=1}^{n} (\theta(1) + a_1) = \theta(n+a)$$

3)

1.) for
$$u \in 1$$
 to n
for $v \in 1$ to n

$$A'(u,v) \in 0$$
for $i \in 1$ to 0
edges \in A Allfrom(i)
foreach($e \in edges$)
$$k \in target of e$$

$$\theta(n^2 + \sum_{i=1}^n (n+a_1)) = \theta(n^2 + n^2 + a) = \theta(n^2)$$

2.)
$$\sum_{i=1}^{n} (u_1 + \theta(1)) = \theta(n+a)$$