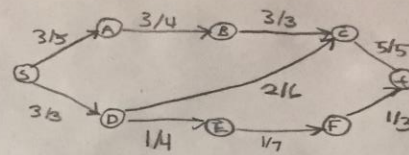
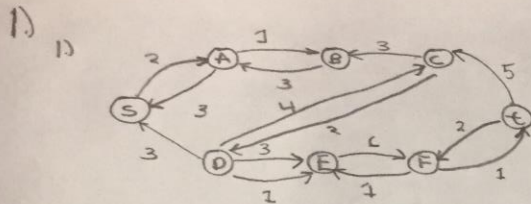


Shane Riegodedios

Dr. Amtof

Introduction to Algorithm Analysis

27 April 2017



Max flow = 6

2) Min cut: $(B, C) + (S, D) = 3 + 3$
 $U: S, A, B$
 $V: C, D, E, F, t$

2)

$n \backslash m$	0	1	2	3	4	5
0	1	2	3	4	5	
1	2	3	4	5	6	
2	3	5	7	9	11	13
3	5	13	29	61		
4	13					

\uparrow \uparrow
65, 533 265, 533 - 3

- 1) $A(2, n) = 2n + 3$
- 2) $A(3, n) = 2^{(n+3)} - 3$
- 3) $A(4, 3) = (2^{265, 533} - 3)$

$$A(2, 1) = A(1, A(2, 0))$$

$$A(1, 3)$$

$$A(3, 0) = A(2, 1) = 5$$

$$A(3, 1) = A(2, A(3, 0))$$

$$A(2, 5)$$

$$A(3, 2) = A(2, A(3, 1))$$

$$A(3, 2) = A(2, 13)$$

$$A(3, 2) = 2(13) + 3$$

$$A(3, 3) = A(2, A(3, 2))$$

$$= A(2, 29) = 61$$

$$A(4, 0) = 13$$

$$A(4, 1) = A(3, A(4, 0)) = A(3, 13)$$

$$2^{13+3} - 3 = 65, 533$$

$$A(4, 2) = A(3, A(4, 1)) = A(3, 65, 533)$$

$$2^{65, 533+3} - 3 =$$

$$2^{2^6} - 3 = 2^{64} - 3$$