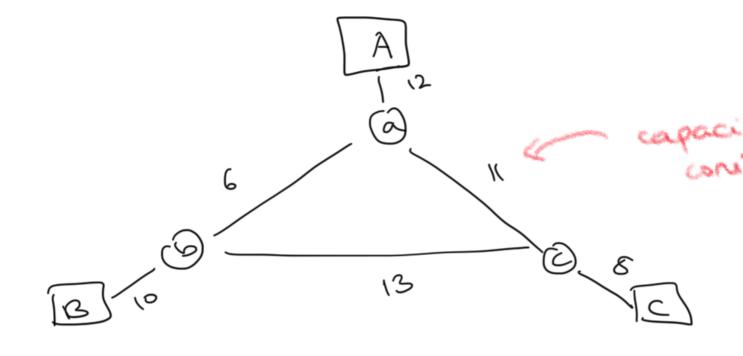
Linear Programming

Users; A, B, C

Surtches:





want

each connection

A-B, B-c, A-c should be

> 2 Mbps Land width

(eg) Droech annection: A-a-b-B

(e5) Indirect connection: A -a-c-b-B

Revenue:

A - B

Re 300/MLps

B- C

Re 200 / Mbps

A-c

R 2901 100 P

Allocate bandwidth to maximize

Variables

XAB - boardwith via direct connection

A-a-b-B

YAB - bandwith via indirection

A - a - c - b - s

Smilarly XBC, YBC, ZAC, YAC



12

6

10

min. constraints:
$$\chi_{AB} + y_{AB} \ge 2$$
 $\chi_{BC} + y_{BC} \ge 2$
 $\chi_{AC} + y_{AC} \ge 2$

Revenue

Drawback: Each path -s a variable

so this strategy won't scale to

bigger graphs. as paths ~ exponential