

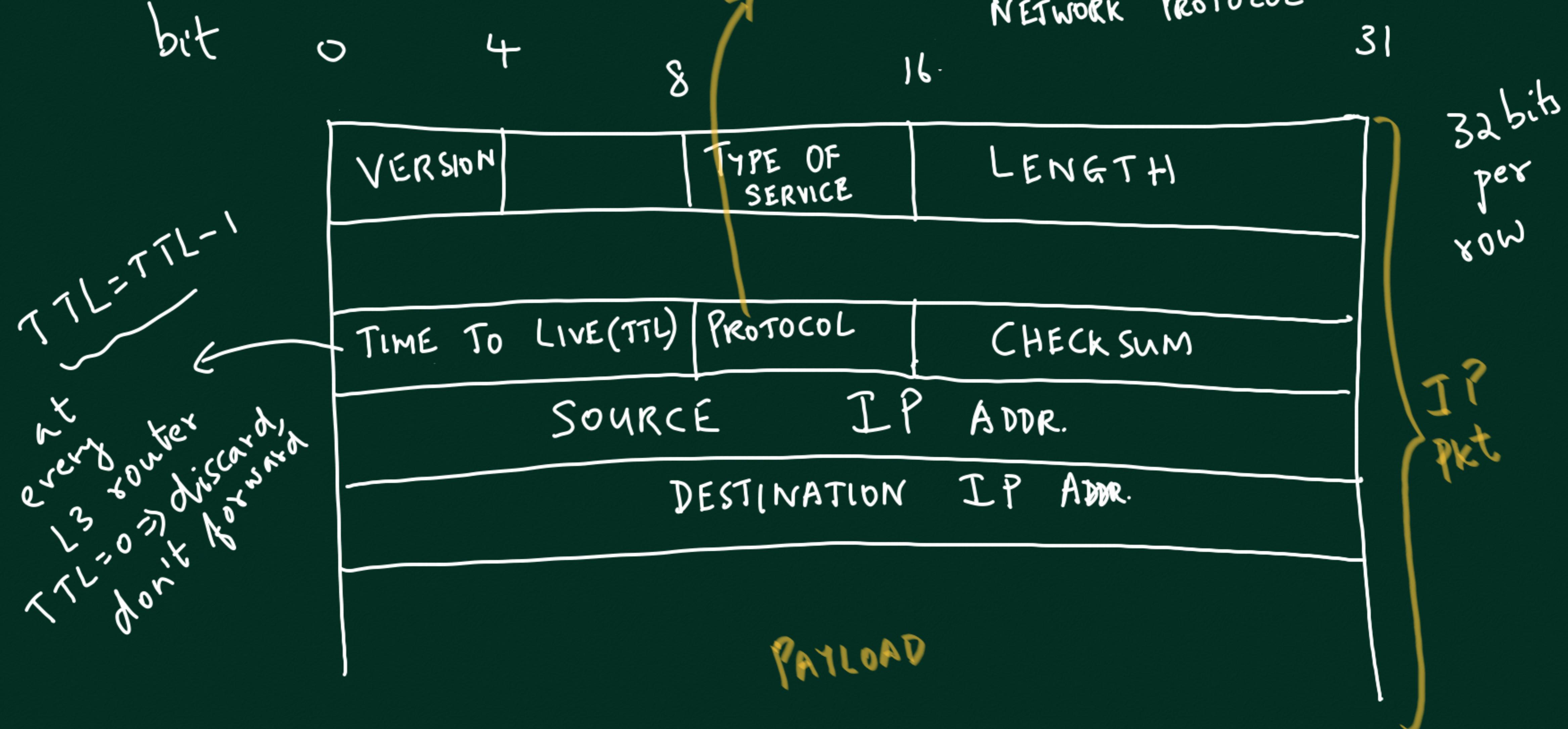
IPv4 HEADER

(BEST-EFFORT SERVICE) (TCP:6, UDP:17, ICMP:1)

INDICATES NEXT HIGHER LAYER IN

NETWORK PROTOCOL STACK

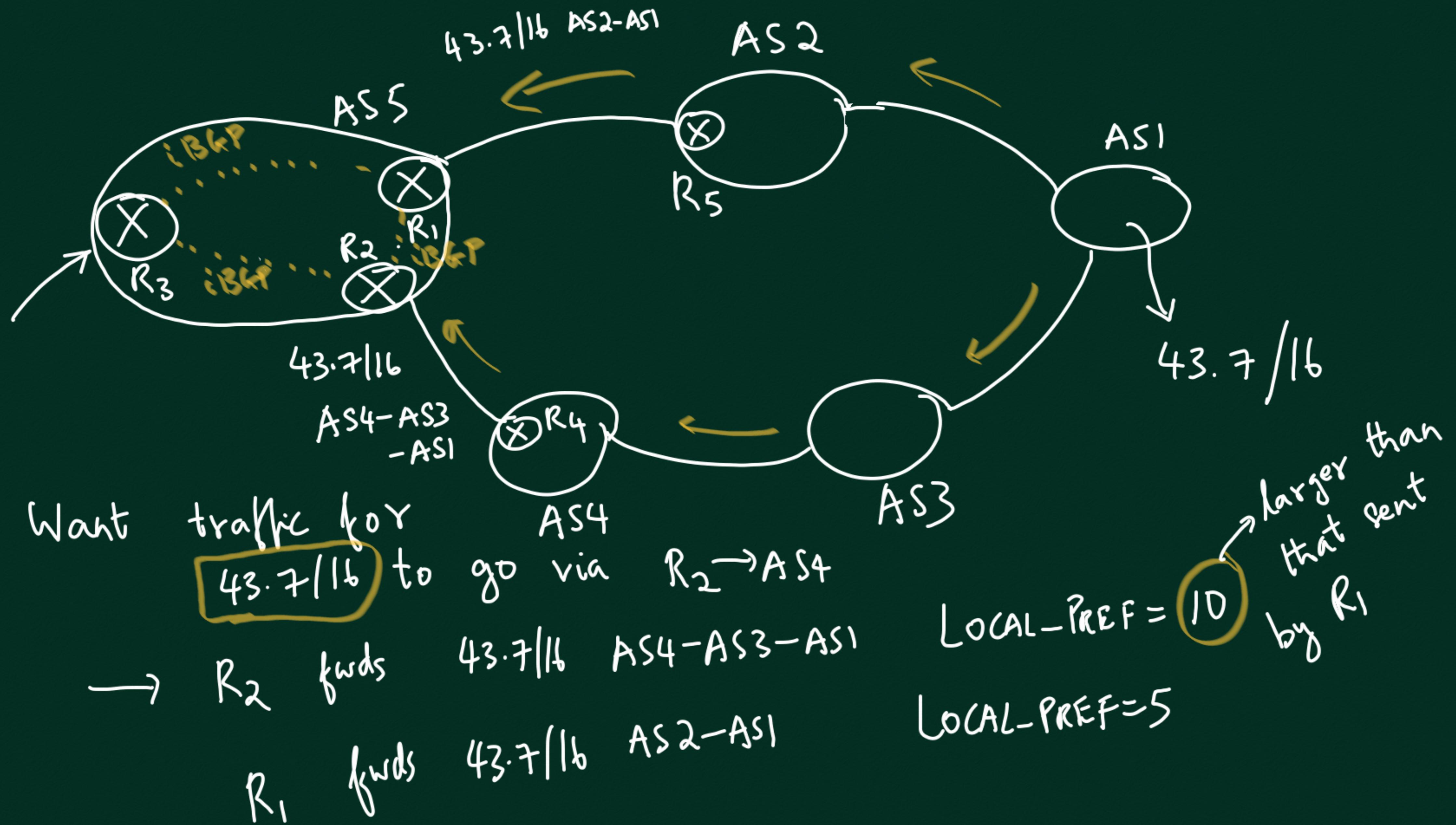
31

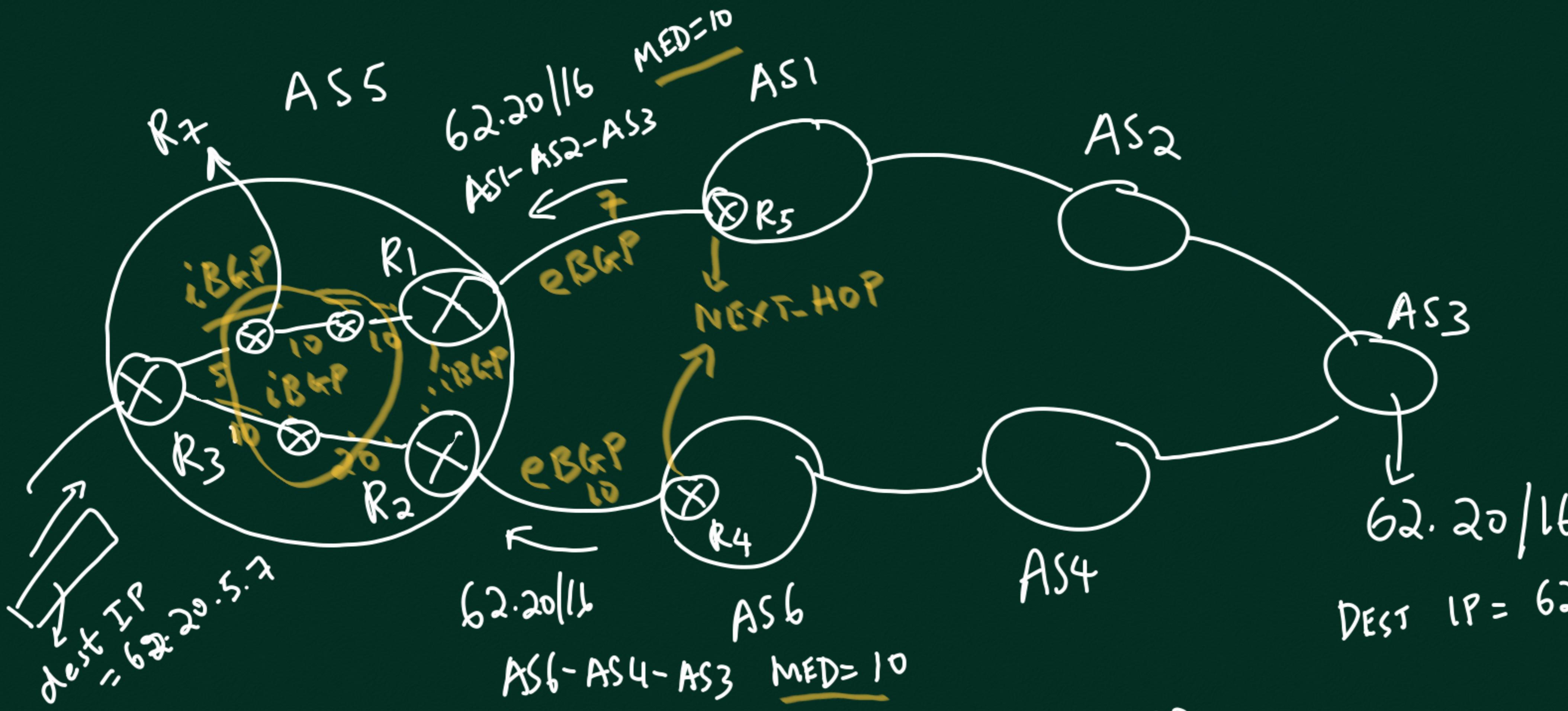


BGP FORWARDING RULES

RUN AT Every BGP SPEAKER (for each Prefix)

- (1) LOCAL-PREF → Larger
- (2) AS-PATH length → shorter
- (3) MED → SMALLER
- (4) eBGP over iBGP
- (5) HOT POTATO Routing (shortest IGP to NEXT-HOP)
- (6) ROUTER-ID → lowest among all EXIT routers





No LOCAL-PREF SET R₁ prefers AS1-AS2-AS3
 R₂ - " - AS6-AS4-AS3, R₃ chooses AS1-AS2-AS3
 (eBGP over iBGP) (Hot Potato)

J B W E F G T T