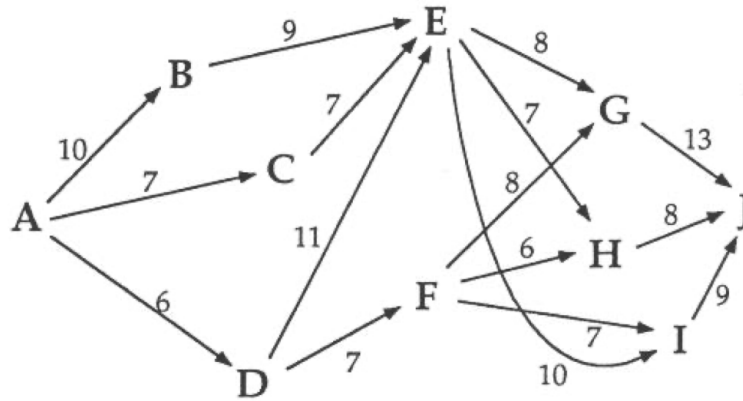


Altitude Sickness

Joe Cougar needs to drive from A to J. Due to a medical condition he wants to avoid high altitude. The following figure gives the maximum altitude of roads between intermediate cities on the way to J.



What route minimizes the maximum altitude of Joe's journey?

Data h_{ij} max altitude from i to j , $j \in D(i)$

Stages Cities $i \in \{A, B, \dots, J\}$

State None

Actions Next city to visit, a

Value Function

V_i = minimum maximum altitude of path from i to J.

we want V_A .

we know $V_J = 0$

$$V_i = \min_{j \in D(i)} \{ \max\{h_{ij}, V_j\} \}$$