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Small Community Air Service Development Program (SCASDP)

UPDATE:

As of January 19, 2021, the Department issued an Amendment to the November 24, 2020, NOFO. Please reference both FY 2019 Orders 2020-11-5 and 2021-1-4 (linked here) for full application details and updates. The FY 2019 NOFO Amendment is in response to the December 27, 2020, Coronavirus Response and Relief Supplemental Appropriations Act.

[FY 2019 SCASDP Amended NOFO Issued: January 19, 2021](#)

[FY 2019 SCASDP NOFO \(solicitation order\) Issued : November 24, 2020](#)

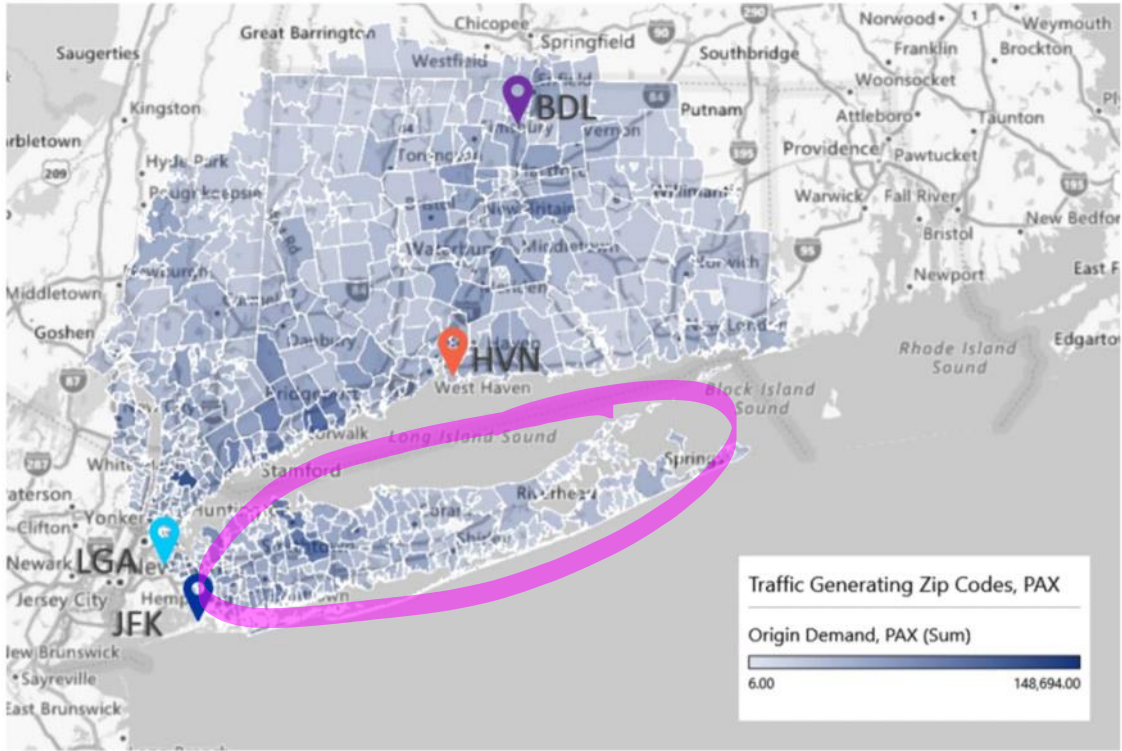
[FY 2019 SCASDP SUMMARY FORM \(*Fillable PDF version\)](#)

Overview

The Small Community Air Service Development Program (SCASDP), a grant program designed to help small communities address air service and airfare issues, is managed by the Associate Director, Small Community Air Service Development, under the Office of Aviation Analysis. The [Essential Air Service \(EAS\)](#) and SCASDP programs are separate and unique. SCASDP's eligibility criteria are broader and provide a grant applicant the opportunity to self-identify its air service deficiencies and propose an appropriate solution. EAS is a direct subsidy to air carriers and serves a limited universe of eligible applicants. Please refer to the EAS website for additional information. SCASDP can involve, among others, revenue guarantees, financial assistance for marketing programs, start-up costs and studies.

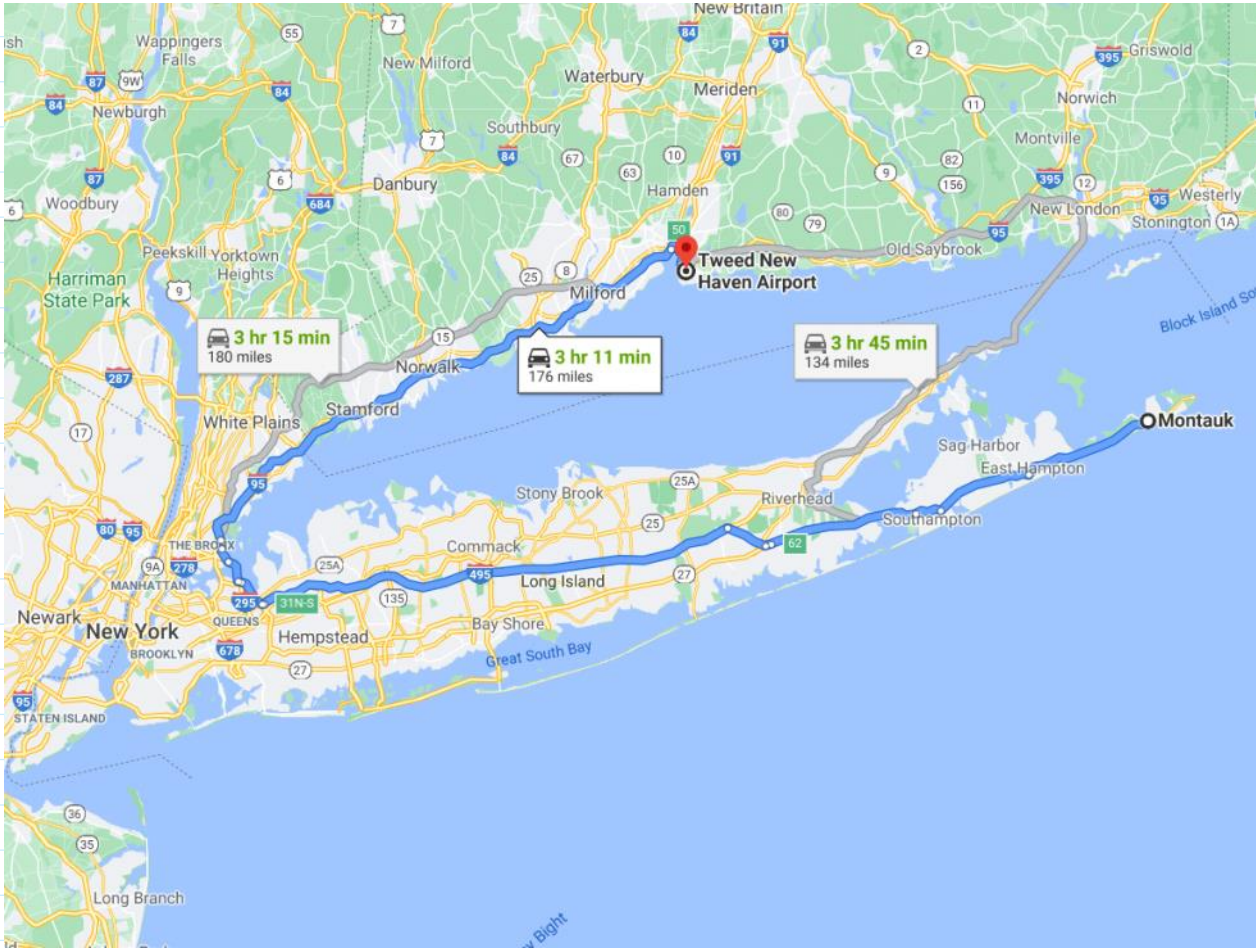
60-mile Radius

Figure 7. HVN's Catchment Traffic Generating Zip Codes within 60 mi of HVN (Resident/Origin Demand)

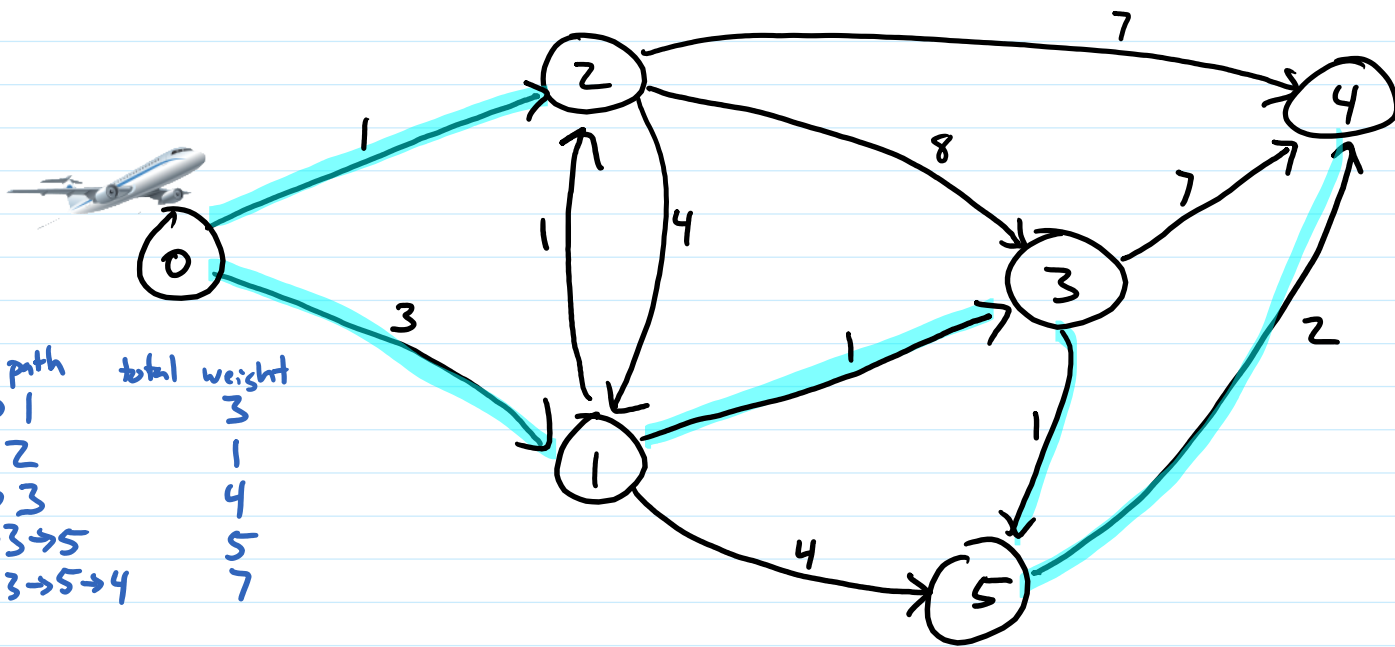


Source: ASM's HVN Catchment/Leakage Analysis, YE1Q2018, Airline Data Inc.

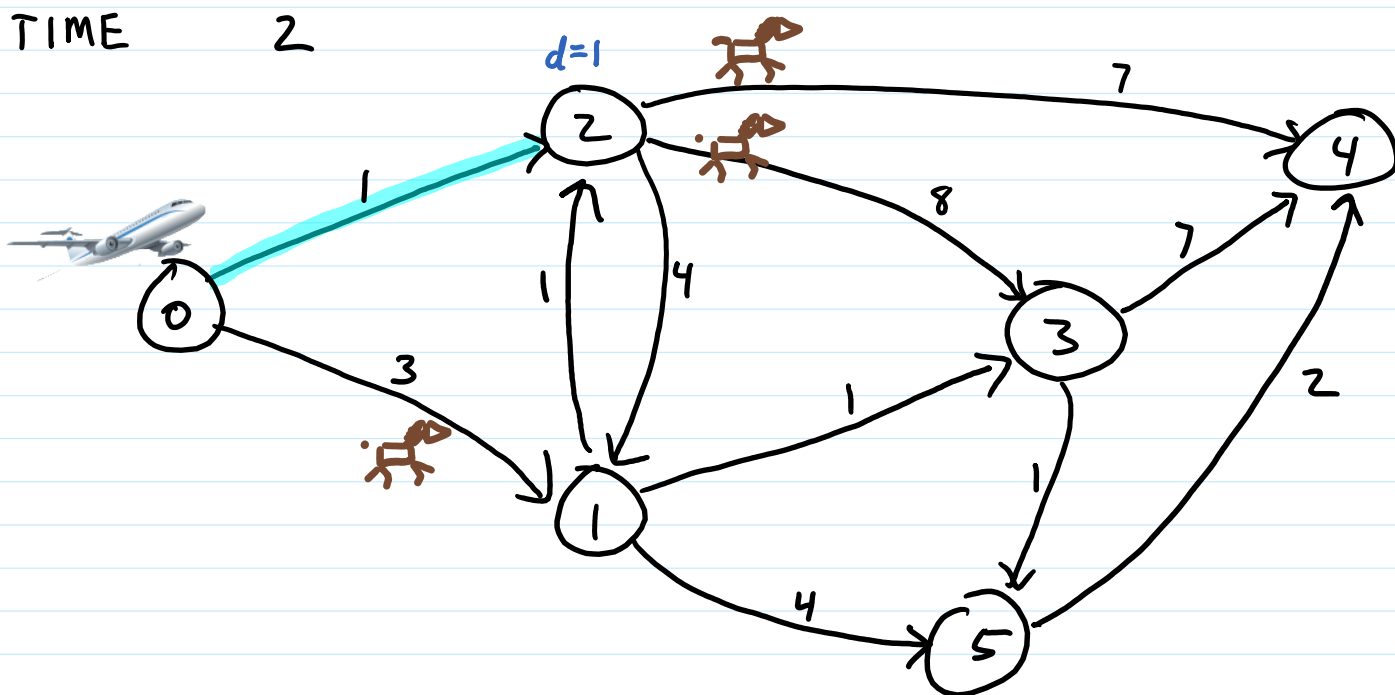
Long Islang is a long drive from HVN



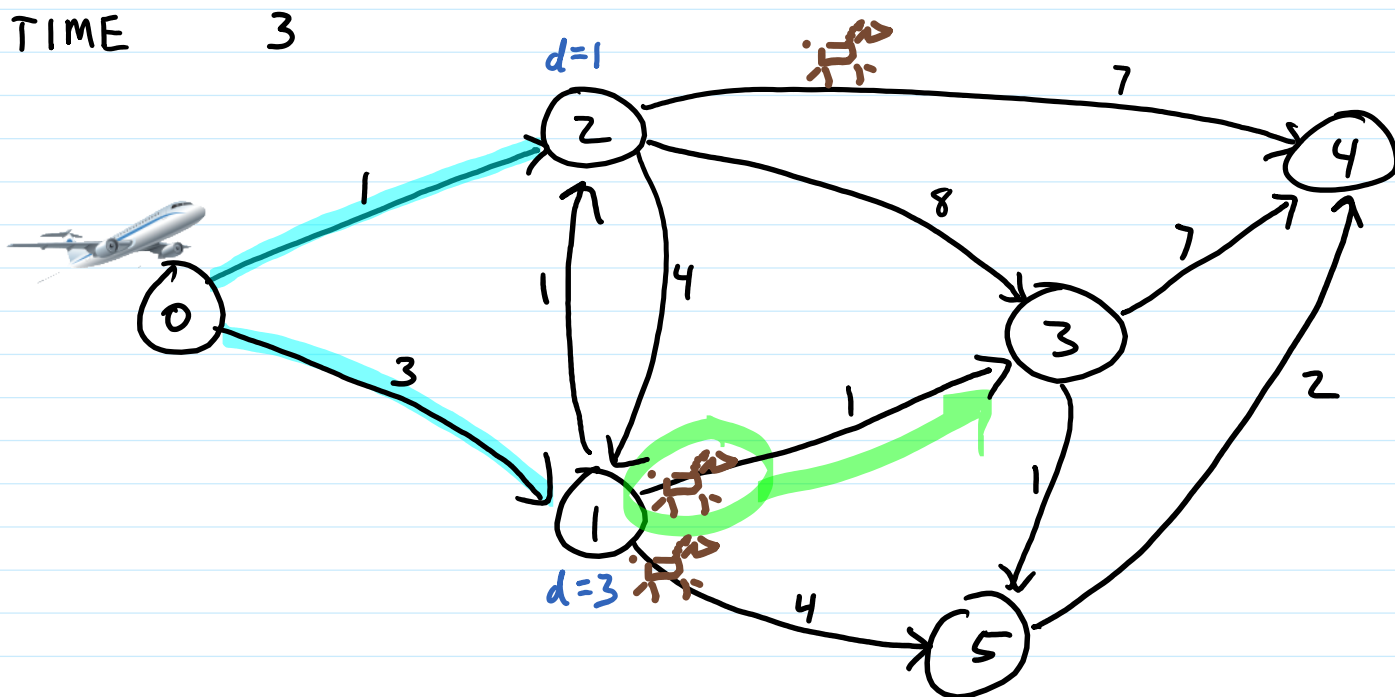
Shortest Paths



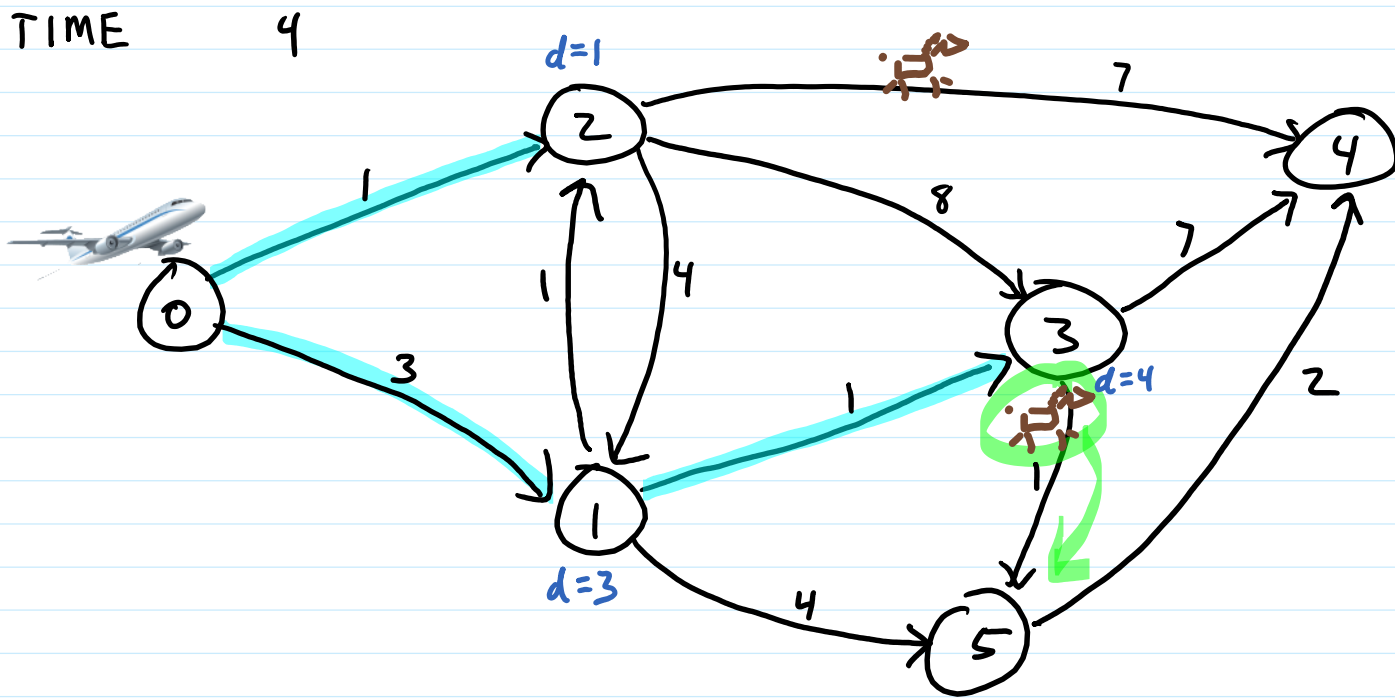
Shortest Paths



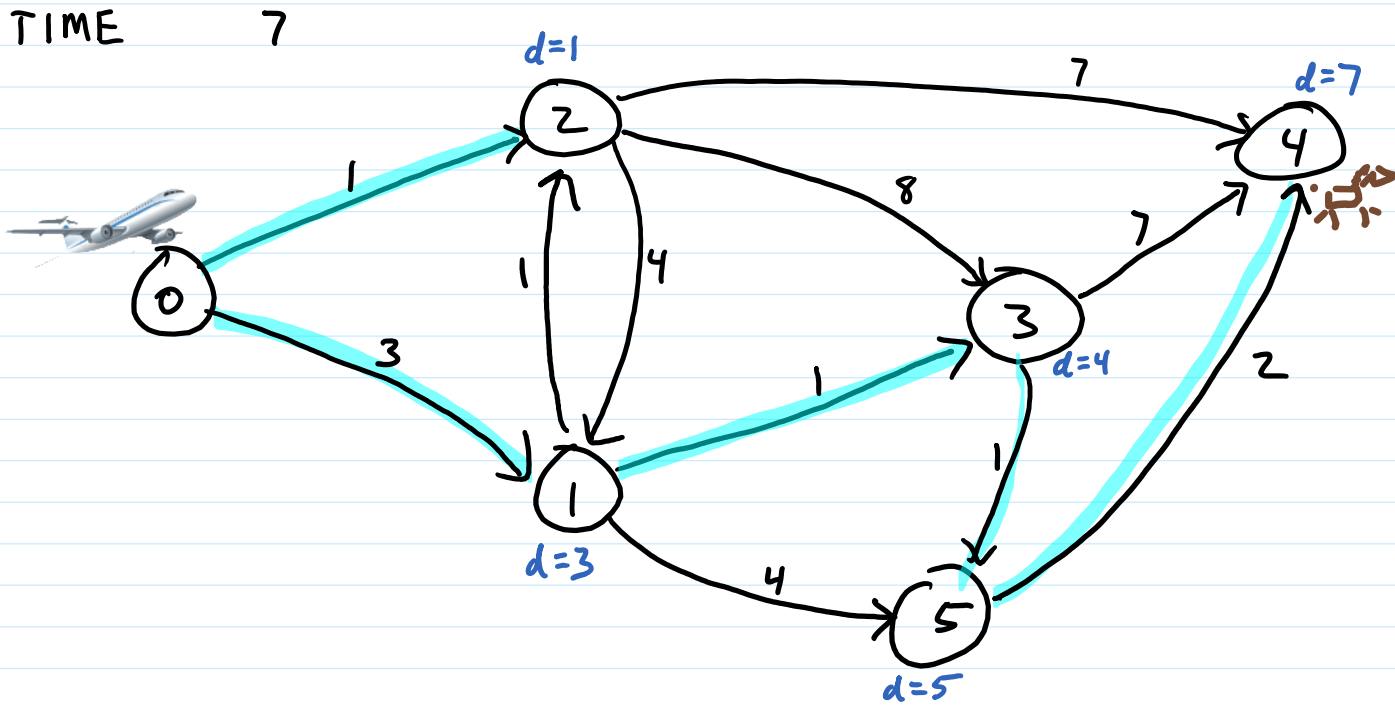
Shortest Paths



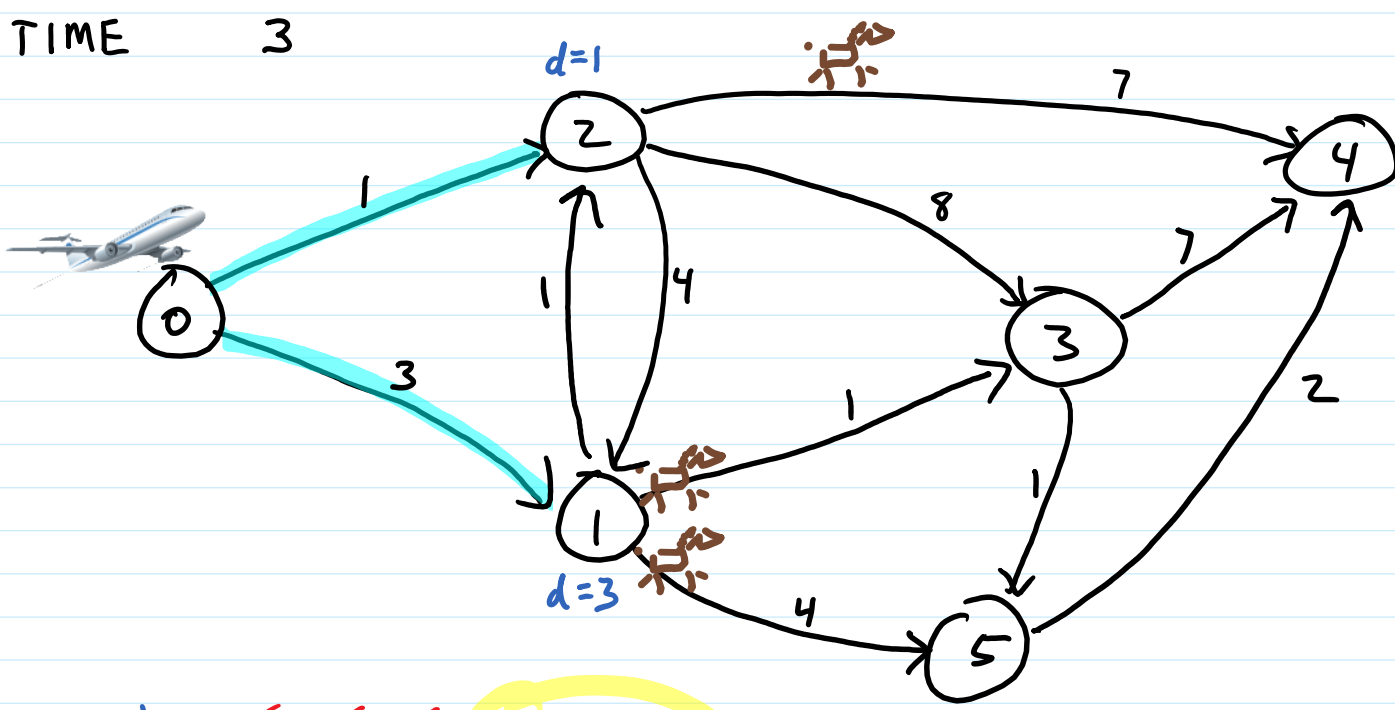
Shortest Paths



Shortest Paths

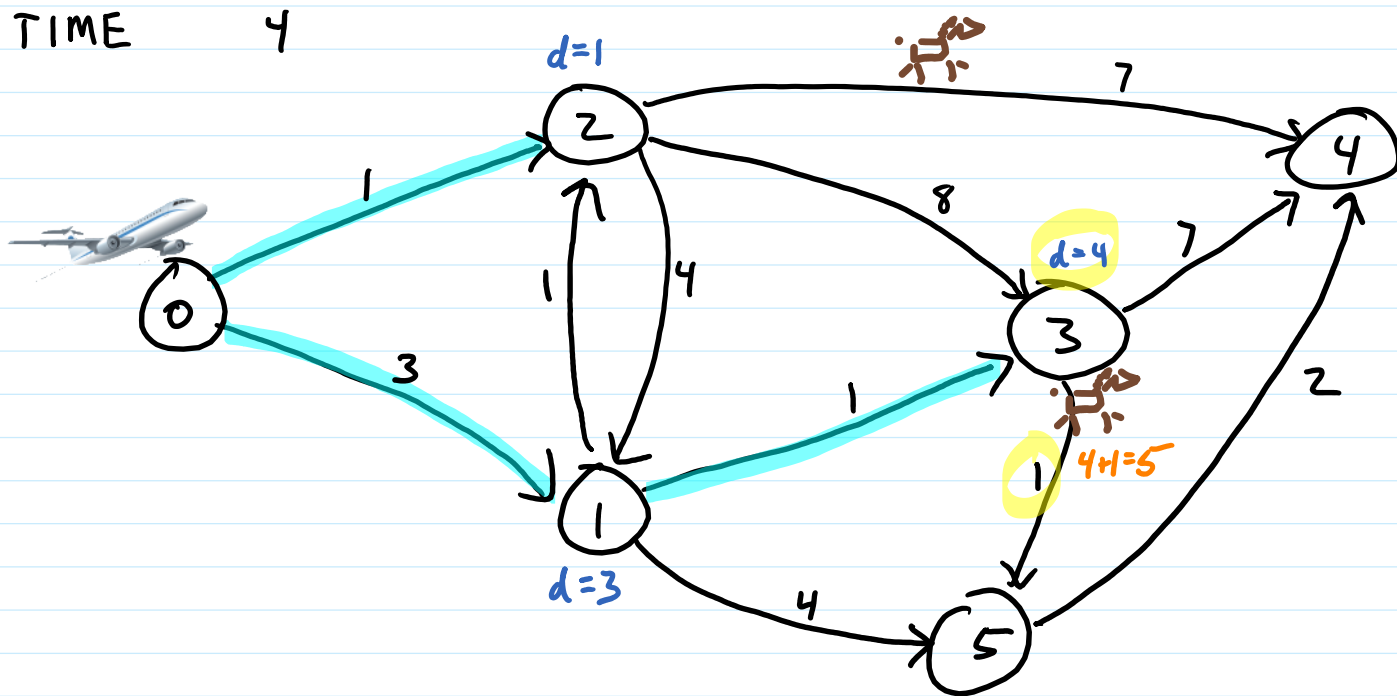


Shortest Paths



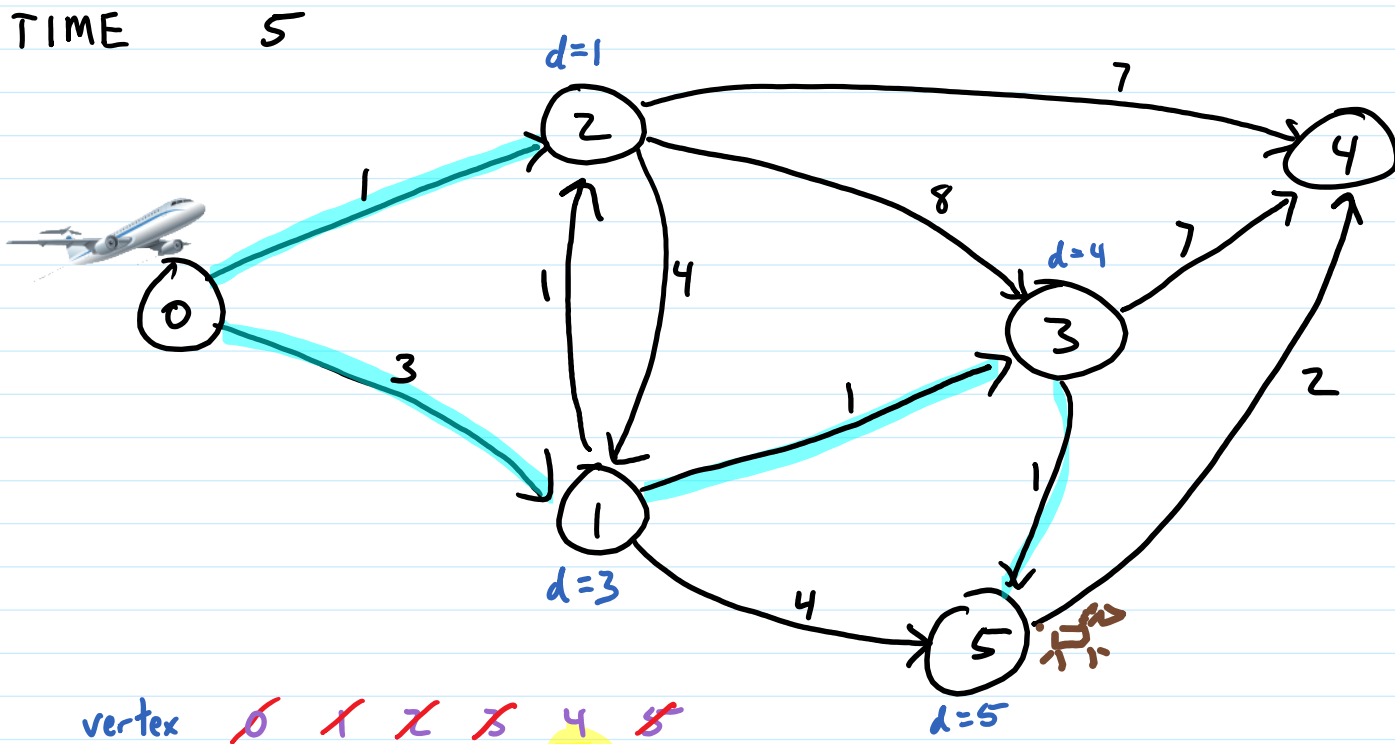
| | | | | | | |
|--------|--------------|--------------|--------------|---|---|---|
| vertex | 0 | 1 | 2 | 3 | 4 | 5 |
| d | 0 | 3 | 1 | 4 | 8 | 7 |
| pred | - | 0 | 0 | 1 | 2 | 1 |

Shortest Paths



| | | | | | | |
|--------|--------------|--------------|--------------|--------------|---|---|
| vertex | 0 | 1 | 2 | 3 | 4 | 5 |
| d | 0 | 3 | 1 | 4 | 8 | 5 |
| pred | - | 0 | 0 | 1 | 2 | 3 |

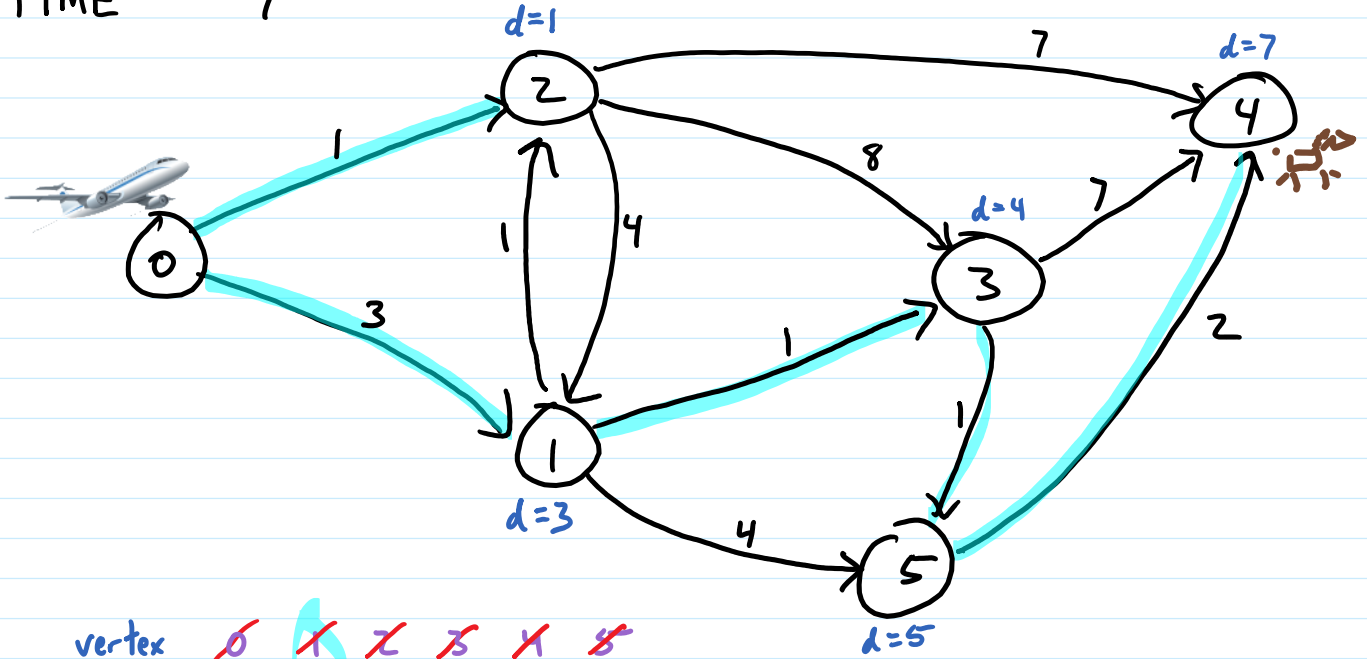
Shortest Paths



| | | | | | | |
|--------|--------------|--------------|--------------|--------------|---|--------------|
| vertex | 0 | 1 | 2 | 3 | 4 | 5 |
| d | 0 | 3 | 1 | 4 | 7 | 5 |
| pred | - | 0 | 0 | 1 | 5 | 3 |

Shortest Paths

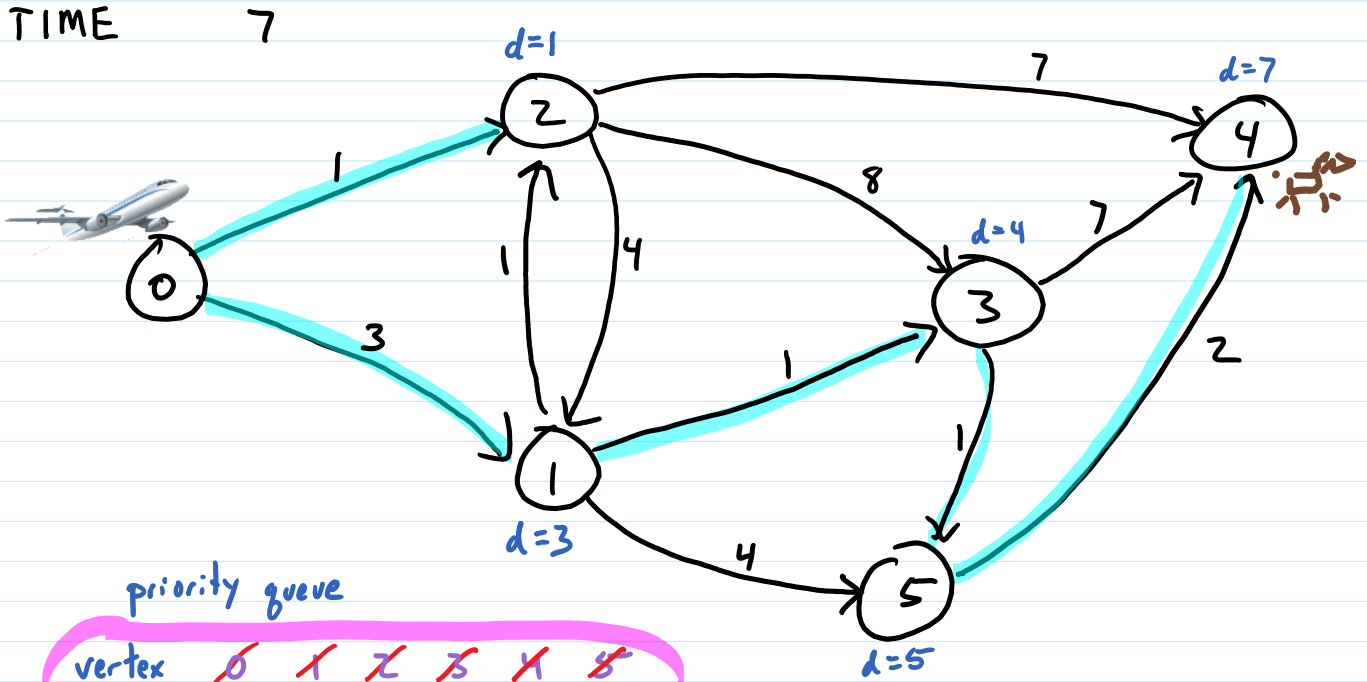
TIME 7



| | | | | | | |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|
| vertex | 0 | 1 | 2 | 3 | 4 | 5 |
| d | 0 | 3 | 1 | 4 | 7 | 5 |
| pred | - | 0 | 0 | 1 | 5 | 3 |

shortest path 0 → 4: 0 1 3 5 4

Shortest Paths



priority queue

| | | | | | | |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|
| vertex | 0 | 1 | 2 | 3 | 4 | 5 |
| d | 0 | 3 | 1 | 4 | 7 | 5 |
| pred | - | 0 | 0 | 1 | 5 | 3 |

shortest path 0 → 4: 0 1 3 5 4

Dijkstra's Algorithm

PRE: no negative weight edges

POST: d gives total weight of shortest paths, $pred$ gives edges in shortest paths
(∞ to mean unreachable)

for each v

$color[v], pred[v], d[v] \leftarrow IN_QUEUE, NIL, \infty$
 $d[s] \leftarrow 0$

$Q \leftarrow$ new PriorityQueue(d)

while Q not empty *one iteration per vertex*

$u \leftarrow$ dequeue(Q) *n calls*

 for each outneighbor v of u *one iteration per edge*

 if $color[v] = IN_QUEUE$ and $d[v] > d[u] + w(u, v)$

$\in m$ calls change_priority($Q, v, d[u] + w(u, v)$)

$d[v] \leftarrow d[u] + w(u, v)$

$pred[v] \leftarrow u$

$color[u] \leftarrow DONE$

adjacency list: $\Theta(n+m)$ + time for priority queue operations

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adjacency list: $O(n+m)$ + time for priority queue operations