Top Two

```
def top_two(graph, start, topX=2):
    heap = [((0, [start]), start)]
    best = defaultdict(list)
    best[start] = [(0, [start])]
    while heap:
        ((cost, path), node) = heapq.heappop(heap)
        for (other, weight) in graph[node].items():
            if other in path:
                continue

            new = (cost + weight, path + [other])
            best[other] = sorted(best[other] + [new])[:topX]
            if new in best[other]:
                heapq.heappush(heap, (new, other))

    return best
```