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graph c:\users\henry\downloads\henry-ki-main\henry-ki-main\graph.py
Classes
       builtins.object
              <u>Graph</u>
<u>Vertex</u>
       class Graph(<u>builtins.object</u>)
         Graph(csv_content: list[list[str]])
           Methods defined here:
            __init__(self, csv_content: list[list[str]])
                   Initialize self. See help(type(self)) for accurate signature.
            __repr__(self) -> str
                   Return repr(self).
            __str__(self) -> str
Return str(self).
           a_star(self, start: str, target: str) -> list[graph.Vertex]
                   # TODO check a star for correctness
                  # perform a_star search on graph with given start and end node.

# returns the path as list of vertices.

# <a href="https://en.wikipedia.org/wiki/A*_search_algorithm">https://en.wikipedia.org/wiki/A*_search_algorithm</a>
           djikstra(self, start: str, target: str) -> list[graph.Vertex]
                   # perform djikstra search on graph with given start and end node.
                  # returns the path as list of vertices.

# https://en.wikipedia.org/wiki/Dijkstra%27s_algorithm
           greedy(self, start: str, target: str) -> list[graph.Vertex]
                   # perform greedy search on graph with given start and end node.
                   # returns the path as list of vertices.
            Data descriptors defined here:
          __dict__
dictionary for instance variables
            __weakref__
                    list of weak references to the object
            Data and other attributes defined here:
            __annotations__ = {'heuristics': dict[str, float], 'nodes': list[str], 'vertices': list[graph.Vertex]}
       class Vertex(<u>builtins.object</u>)
          Vertex(start: str, end: str, cost: float)
            Methods defined here:
            __init__(self, start: str, end: str, cost: float)
Initialize self. See help(type(self)) for accurate signature.
            __repr__(self) -> str
Return repr(self).
            __str__(self)
Return str(self).
            Data descriptors defined here:
          __dict__
dictionary for instance variables
            __weakref__
list of weak references to the object
            Data and other attributes defined here:
            __annotations__ = {'cost': <class 'float'>, 'end': <class 'str'>, 'start': <class 'str'>}
```