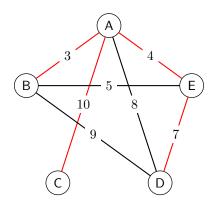
ale-cci

Modelli Algoritmi per il Supporto alle Decisioni

Minimum Spanning Tree



Algoritmo

```
import utils
graph = [(10, 'A', 'C'), (8, 'A', 'D'), (7, 'D', 'E'), (4, 'A', 'E'),
           (3, 'B', 'A'),
(9, 'B', 'D'),
(5, 'B', 'E')]
N = utils.vertices_of(graph)
connected = set()
mst = []
edges = sorted(graph)
for edge in edges:
     weight, lhs, rhs = edge
     # Two nodes already connected
     if lhs in connected and rhs in connected:
          continue
     mst.append(edge)
     connected.update({lhs, rhs})
     if len(mst) == N:
          break
print(mst)
```

Analisi complessità

pass

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