

### **Algoritmiek**

#### **Onderwerpen:**

Sorteren (StraightSelectionSort, Bubblesort, InsertionSort) **Backtracking** Convex Hull Recursie Sorteren (QuickSort / MergeSort) Sorteren (mbv een binaire boom) 'Greedy' algoritmes Kortste pad (Dijkstra, Bellman-Ford, A\* algoritme) Alle kortste paden (Floyd-Warshall, Johnson) Minimaal opspannende boom (Prim, Kruskal) **Kortste routes (handelsreizigesprobleem) Maximale stroom (Ford Fulkerson)** Complexiteit Heuristieken

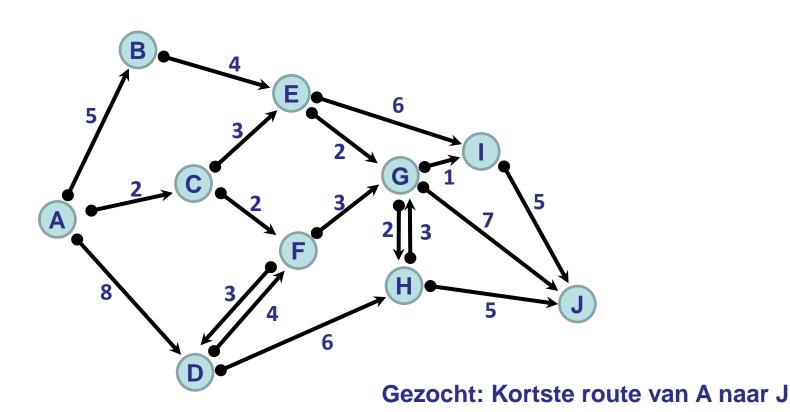


### **Algoritmiek**

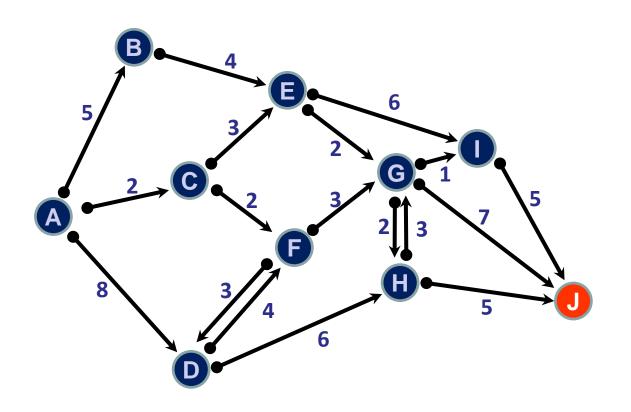
#### **Onderwerpen:**

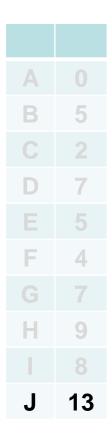
```
Sorteren (StraightSelectionSort, Bubblesort, InsertionSort)
                  Backtracking
                  Convex Hull
                    Recursie
        Sorteren (QuickSort / MergeSort)
        Sorteren (mbv een binaire boom)
               'Greedy' algoritmes
Kortste pad (Dijkstra, Bellman-Ford, A* algoritme)
  Alle kortste paden (Floyd-Warshall, Johnson)
  Minimaal opspannende boom (Prim, Kruskal)
    Kortste routes (handelsreizigesprobleem)
       Maximale stroom (Ford Fulkerson)
                  Complexiteit
                  Heuristieken
```





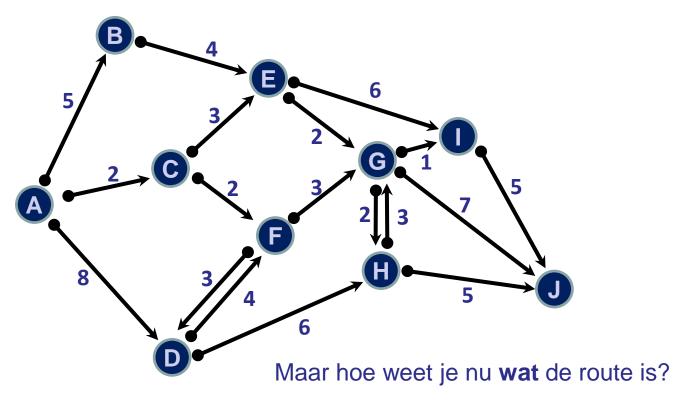


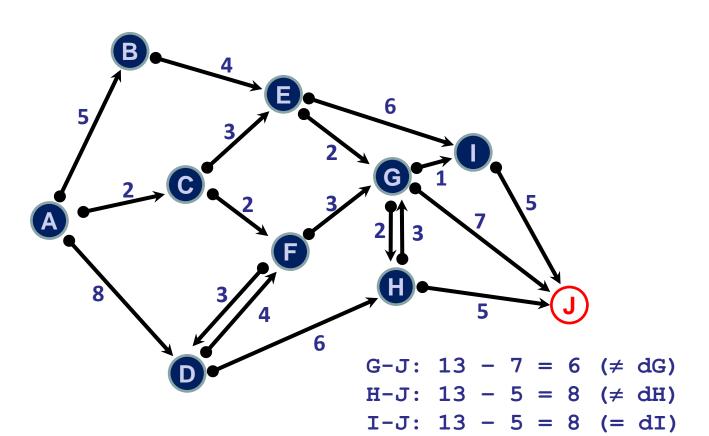




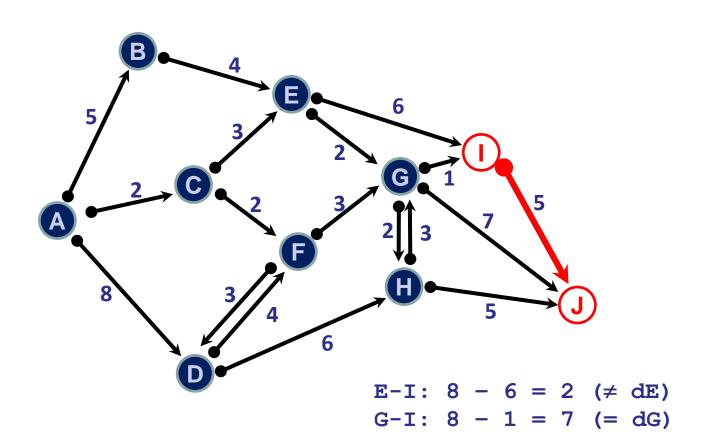


Er is nu berekend **hoe lang** de kortste route is...

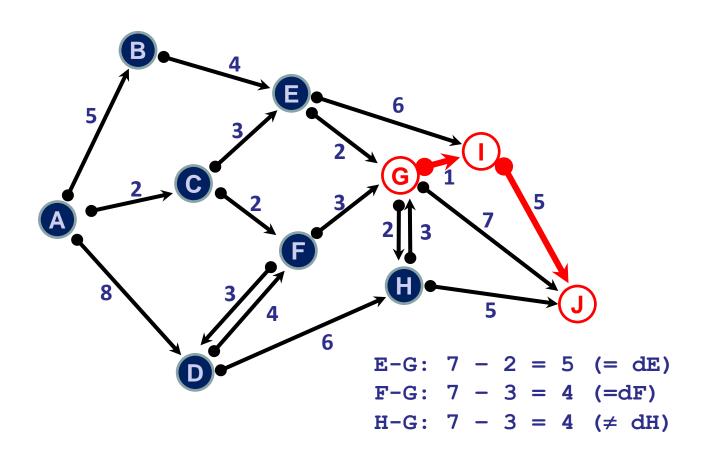




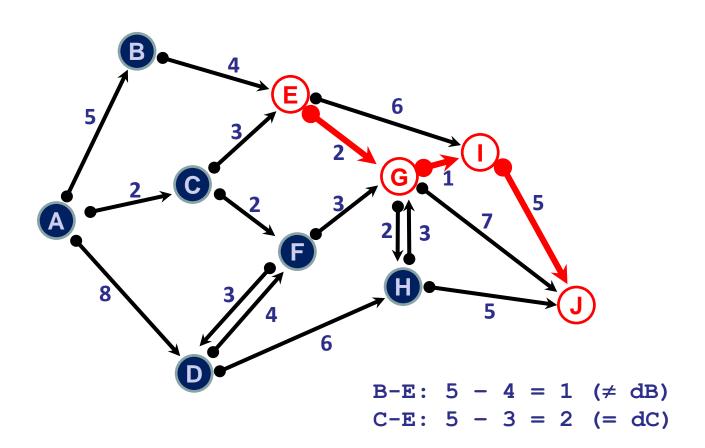
В	5
C	
D	7
Е	
F	4
G	7
Н	9
1	8
J	13



В	5
D	7
Ε	5
F	4
G	7
Н	9
-1	8

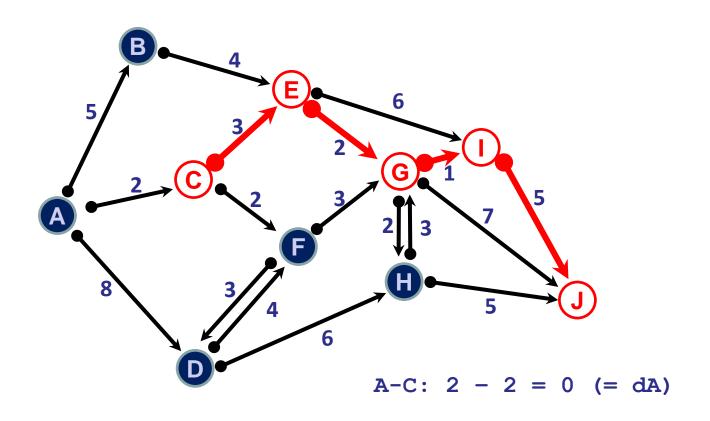


В	5
C	
D	7
Е	5
F	5 4
F	4
F G	<b>4 7</b>



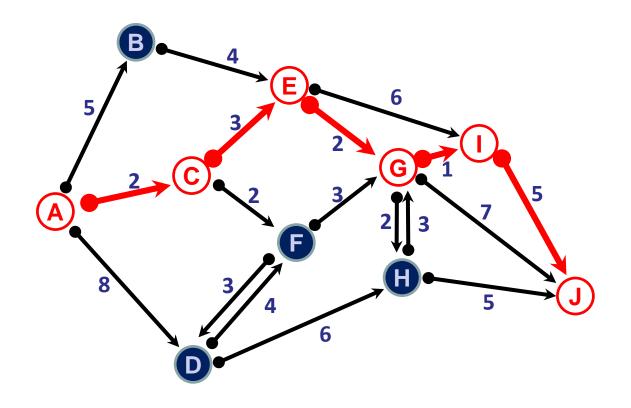
В	5
C	2
D	7
Ε	5
F	4
	7
Н	9
J	13

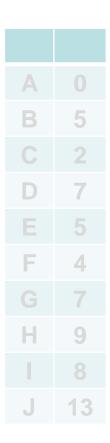




A	0
В	5
C	2
D	7
Е	
F	4
	7
Н	9
J	13









Volgende les (08c):

uitwerking in (pseudo)code



