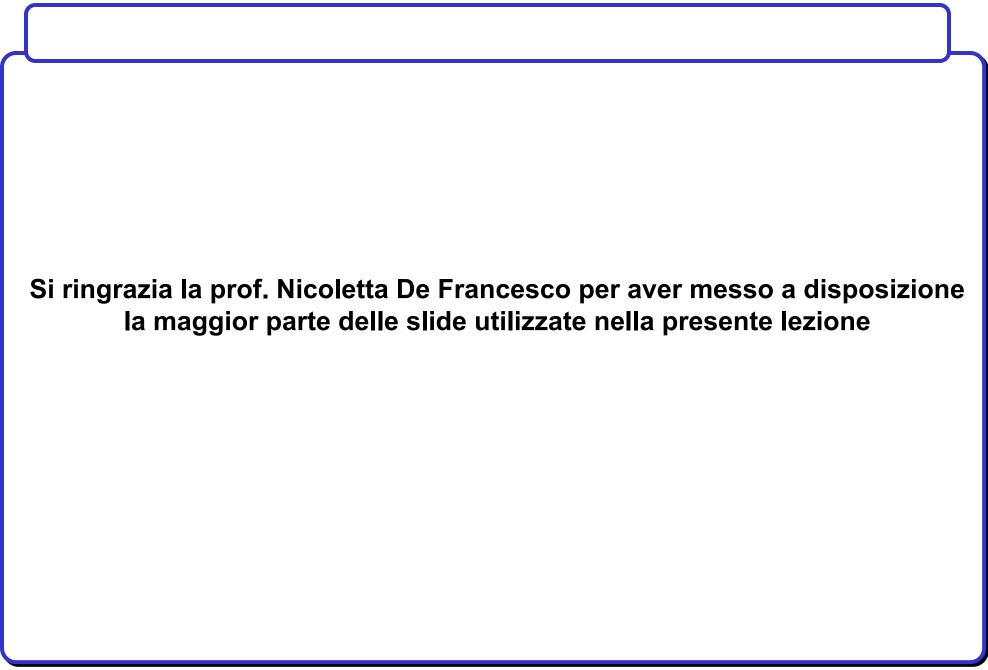
Università di Pisa

Pietro Ducange

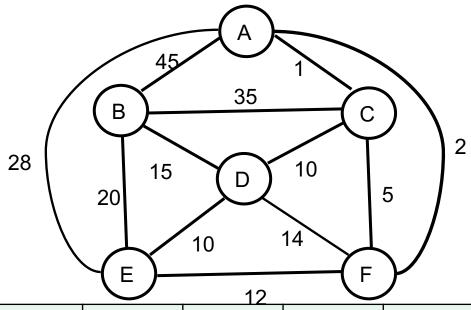
Algoritmi e strutture dati

a.a. 2019/2020

Grafi II Parte

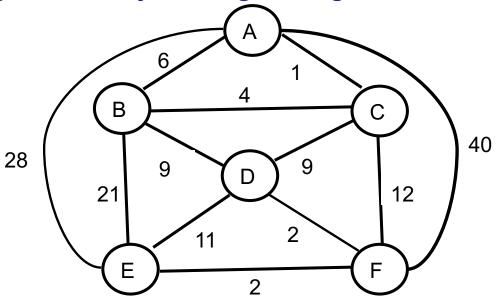


1. Applicare l'algoritmo di Dijkstra al grafo seguente con nodo di partenza F



| Q | Nodo scelto | Α | В | С | D | E | F |
|---------------------|----------------|---------|---------|---------|---------|---------|-------|
| A, B, C, D, E, F | | inf - | 0 - |
| A, B, C, D, E | F | 2 F | 0 - | 5 F | 14 F | 12 F | 0 - |
| B, C, D, E | Α | 2 F | 47 A | 3 A | 14 F | 12 F | 0 - |
| B, D, E | С | 2 F | 38 C | 3 A | 13 C | 12 F | 0 - |
| B, D | E | 2 F | 32 E | 3 A | 13 C | 12 F | 0 - |
| В | D | 2 F | 28 D | 3 A | 13 C | 12 F | 0 - |

2. Applicare l'algoritmo di Dijkstra al grafo seguente con nodo di partenza A



| Q | Nodo scelto | A | В | С | D | E | F |
|---------------------|----------------|-------|---------|---------|---------|---------|---------|
| A, B, C, D, E, F | | 0 - | inf - |
| B, C, D, E, F | Α | 0 - | 6 A | 1 A | 10 C | 28 A | 40 A |
| B, D, E, F | С | 0 - | 5 C | 1 A | 10 C | 28 A | 13 C |
| D, E, F | В | 0 - | 5 C | 1 A | 10 C | 27 B | 13 C |
| E, F | D | 0 - | 5 C | 1 A | 10 C | 21 D | 12 D |
| E | F | 0 - | 5 C | 1 A | 10 C | 14 F | 12 D |

Cammini minimi: ACB (5), AC (1), ACD (10), ACDFE (14), ACDF (12)