ES 39

ALG(G, $w(e)_{e \in E}$, $(x,y) \in E$

$Q(s) = 0$ $\quad d(u) = \infty \ \forall u \in V$

$Q \leftarrow V$ $\quad$ parent$(s) \leftarrow$ nil

WHILE $Q \neq$ VUOTO

ESTRAI u da Q

for $v \in$ ADJ$[u]$

if $v \in Q$ and $d(u,v) < d(u)$

then parent$(v) \leftarrow u$

$d \leftarrow d(u,v)$

decreaseKey$(Q, v, d(v))$

ES 46

$E = \{(1,2), (5,3), (2,3), (3,5), (2,5), (2,4), (5,4), (5,6), (4,6)\}$

$f(1,2) = 0$, $f(1,3) = 0$, $f(2,3) = 0$, $f(3,5) = 0$, $f(2,5) = 0$, $f(2,4) = 0$

$f(5,4) = 0$, $f(5,6) = 0$, $f(4,6) = 0$

$G_F = \{(1,2), (1,3), (2,3), (3,5), (2,5), (2,4), (5,4),$

$c_f(1,2) = 15$ $\quad c_f = 13$ $\quad c_f = 5$ $\quad c_f = 10$ $\quad c_f = 6$ $\quad c_f = 10$ $\quad c_f = 15$

$(5,6), (4,6)\}$

$c_f = 16$ $\quad c_f = 14$

$b = 3$ incremento tutte le $f(e) = 5$

$G_F = \{(1,2) = 10, (1,3) = 7, (2,3) = 0, (3,5) = 5, (2,5) = 1, (2,4) = 5,$

$(5,4) = 10, (5,6) = 11, (4,6) = 9\}$

$b = 1$ incremento tutti i $f(e) = 6$ tranne $f(2,3) = 0$

$G_F = \{(1,2) = 9, (1,3) = 6, (3,5) = 4, (2,5) = 0, (2,4) = 4, (5,4) = 9$

$(5,6) = 10, (4,6) = 8\}$

$b = 4$